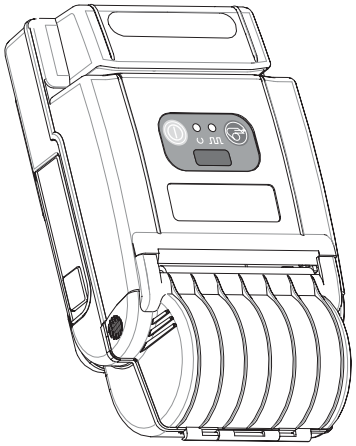
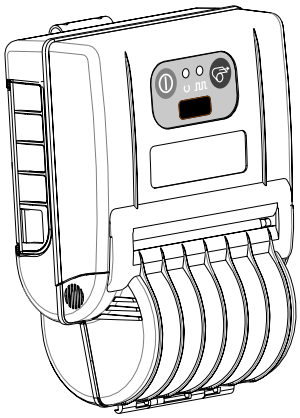
Cameo™

Receipt Printers

Maintenance Manual

for Cameo 2, Cameo 2SC, Cameo 3, Cameo 3SC, & Cameo 3N Models





Zebra Technologies International, LLC
333 Corporate Woods Parkway
Vernon Hills, Illinois 60061.3109 USA
Phone: +1.847.634.6700
Toll-Free: +1.800.423.0422
Fax: +1.847.913.8766

RMAN-CM rev. C

March, 2004

Proprietary Statement

This manual contains proprietary information of Zebra Technologies Corporation and its subsidiaries (Zebra Technologies). It is intended solely for the information and use of parties operating and maintaining the equipment described herein. Such propriety information may not be used, reproduced, or disclosed to any other parties for any other purpose without the expressed written permission of Zebra Technologies.

Product Improvements

Continuous improvement of products is a policy of Zebra Technologies. All specifications and designs are subject to change without notice.

FCC Compliance Statement

Digital apparatus has been tested and found to comply with the limits for a Class B Digital Device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the product manuals, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The user is cautioned that any changes or modifications not expressly approved by Zebra Technologies could void the userÕs authority to operate the equipment. This unit was tested with shielded cables on the peripheral devices. Shielded cables must be used with the unit to insure compliance.

WARNING: EXPOSURE TO RADIO FREQUENCY RADIATION ON SOME MODELS. TO CONFORM TO FCC RF EXPOSURE REQUIREMENTS THIS DEVICE SHALL BE USED IN ACCORDANCE WITH THE OPERATING CONDITIONS AND INSTRUCTIONS LISTED IN THIS UNITÕS USERÕS MANUAL.

Canadian DOC Compliance Statement

Digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

Liability Disclaimer

Zebra Technologies takes steps to assure that its published Engineering specifications and manuals are correct; however, errors do occur. Zebra Technologies reserves the right to correct any such errors and disclaims liability resulting therefrom.

Limitation of Liability

In no event shall Zebra Technologies or anyone else involved in the creation, production or delivery of the accompanying product (including hardware and software) be liable for any damages whatsoever (including, without limitation, consequential damages including loss of business profits, business interruption or loss of business information) arising out of the use of or the results of use of or inability to use such product, even if Zebra Technologies has been advised of the possibility of such damages. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Copyrights

The copyrights in this manual and the label printer described therein are owned by Zebra Technologies. All rights are reserved. Unauthorized reproduction of this manual or the software in the label printer may result in imprisonment of up to one year and fines of up to $10,000 (17 U.S.C.506). Copyright violators may be subject to civil liability.

©2003 ZIH Corp. All trademarks and registered trademarks are property of their respective owners. All rights reserved.

CONTENTS

SECTION 1: CAMEO INTRODUCTION 1-1
Specifications 1-2
Control Panel 1-6
Communications 1-7
Verify that the Printer is Working 1-9
Print a Configuration Label 1-10
SECTION 2 • CAMEO REPAIR PROCEDURES ..... 2 -1
Tools and Supplies ..... 2 -1
Storage and Handling ..... 2 -1
Cleaning ..... 2 -2
Troubleshooting ..... 2 -4
Media Cover, Cameo 2 - AN16793-005 & Cameo 3- AN16794-003 ..... 2 -6
Edge Guide, Cameo 2 & 3 - AN16793-009 Cameo 2 & 3 ..... 2 -7
Top Cover, Cameo 2 - AN16793-021 & -022 & Cameo 3- AN16794-023 & -024 ..... 2 -8
Labels and Keypad, Cameo 2 & 3- AN16793-001 ..... 2 -9
CPU Board, Cameo 2- AN16793-013 & -014 ..... 2 -10
SRRF Modules, Cameo 2, 916 MHz,- AN16793-026; 2.4 GHz- AN16824-013
& Bluetooth- AN16793-032 ..... 2 -13
916 MHz Antenna, Cameo 2 - AN16730-031 ..... 2 -14
2.4 GHz Antenna, Cameo 2 - AN16793-019 ..... 2 -15
CPU Board, Cameo 3- AN16794-004; 005;006; 007;008 & -009 ..... 2 -16
SRRF Assembly, Cameo 3- 916 MHz- AN16793-026; 2.4 GHz - AN16824-013
& Bluetooth - AN16793-032 ..... 2 -20
SRRF Antenna Assembly, Cameo 3- AN16794-012, 028, 030
& -032 (2.4 GHz);AN16794-013, -033 & -031 (916 MHz) ..... 2 -22
Print Head Assembly, Cameo 2- CC14036-1 & Cameo 3- CC15301-1 ..... 2 -23
Platen, Cameo 2- AN16793-003 & Cameo 3- AN16794-002 ..... 2 -25
Platen Spring, Cameo 2 & 3- AN16793-006 ..... 2 -26
Compound Gear Kit, Cameo 2 & 3- AN16793-004 ..... 2 -28
Motor, Cameo 2 and 3- AN16793-008 ..... 2 -29
Bar Sensor Assembly, Cameo 2 Plus- AN16793-010 ..... 2 -30
Eye Sensor, Cameo 2 & 3- AN16793-011 ..... 2 -32
Radio Module Assembly, Cameo 3N- AN16794-026, -027, -028, &-029 ..... 2 -34
Magnetic Card Reader, Cameo 2 - BC15257-1 ..... 2 -38
Smart Card Reader, Cameo 3SC - BB15426-1 ..... 2 -39
Magnetic Card Reader, Cameo 3- AN16793-033 ..... 2 -40
Smart Card Cover, Cameo 3 - AN16794-024 ..... 2 -42
Belt Clip & Shoulder Strap, Cameo 2, 3, & 3SC - AN16794-001 ..... 2 -43
Battery Latch, Cameo 2 & 2SC - AN16793-012 ..... 2 -44

continued on next page

Battery Latch, Cameo 3 & 3N- AN16794-010 ..... 2 -46
Battery,Cameo 2- CC14035-3 & Cameo, 3, 3SC & 3N- CC15294-3 ..... 2 -47
Environmental Boot-, Cameo 2 AN16793-015, -016, --017 & -018 ..... 2 -48
Enviornmental Boot, Cameo 3 - AN16794-016, -017, -018, -019, -020 & -021 2 -48
SECTION 3 • CAMEO PCCS AND PARTS 3-1
Factory Repair and Parts Ordering Procedure 3-2
Interface Cables 3-3
Cameo 2 Product Configurator Code (PCC) 3-5
Cameo 2 with MCR or Smart Card 3-6
Cameo 2 Basic 3-9
Cameo 2 Printer 3-12
Cameo 2 Boots 3-14
Cameo 3 & 3N Product Configurator Code (PCC) 3-16
Cameo 3 Basic 3-17
Cameo 3 with Network Radio 3-20
Cameo 3 with MCR & Smart Card Reader 3-22
Cameo 3 Printer 3-25
Cameo 3 Boots 3-26
PATENT INFORMATION ..... INSIDE BACK COVER

SECTION 1: CAMEO INTRODUCTION

Description

The Cameo™2, Cameo 2 plus, Cameo 2SC , Cameo 3, Cameo 3SC and Cameo 3N Portable Printers utilize the latest in direct thermal printing technology. These products are designed for mobile printing applications and their compact size is ideally suited to print receipts and for many other situations where on-site printing is required. The Cameo 2 plus offers label printing capabilities.

Additionally, Cameo series printers can be ordered with an integrated magnetic stripe reader (MSR) and/or a Smartcard reader. (CameoSC series.)

The Cameo series also offers wireless communications options such as Bluetooth™ or infrared (IrDA) interfaces.

The Cameo 3N Network Printer allows communication as a node within a Wireless Local Area Network (WLAN), and its wireless capabilities allow communications from any point within the LAN's perimeter.

SPECIFICATIONS

Physical

	Cameo 2	Cameo 2^{SC}	Cameo 3/ 3^{SC}/ 3N
Height	6.6" (168 mm)	7.3” (185 mm)	6.2” (158 mm) (3) 8.2” (208 mm)(3^{SC},N)
Width	3.7" (94 mm)	3.7" (94 mm)	4.6” (117 mm)
Depth	2.6" (66 mm)	2.6" (66 mm)	2.6” (66 mm)(3, 3^{SC}) 3.5” (89 mm) (3N)
Weight*	1.15 lbs. (.5 kg)	1.35 lbs (.6 Kg)	1.4 lbs. (.64 kg) (3) 1.6 lbs (.73 kg) (3^{SC}) 1.9 lbs. (.86 kg.) (3N)

** Weight is with battery, no media loaded*

Environmental

Operating temperature:	5° to 122°F (-15° to 50°C)
Storage temperature:	-13° to 158°F (-25° to 70°C)
Relative humidity:	10%-90% non-condensing

Cameos automatically compensate for head temperature when printing. Protection circuitry prevents damage due to excessive print head temperatures.

Printing Characteristics

	Cameo 2, 2^{SC}	Cameo 3/3N
Print Head Width:	1.9" (48 mm)	2.83” (72 mm)
Number of Dots:	384	574
Print Head Life (estimated)	1,950,000" (50 Km nominal)	
Technology	Direct Thermal	
Print Speed	up to 3 IPS (76.2 mm/sec.)	
Print Head Density	203 DPI (8 dots/mm)	

Power

Cameos utilize removable NiMH battery packs. If not connected to a terminal with DTR present, the Cameo will automatically power off to conserve battery life. The time-out value can be programmed from the host terminal; the factory default time-out is two minutes.

Additional power features include:

- Full charge will print approximately 3000” (76 m) of receipt stock.
- Low battery indicated by flashing LED and reported to terminal on demand
- Power On/Off controlled from terminal or keypad

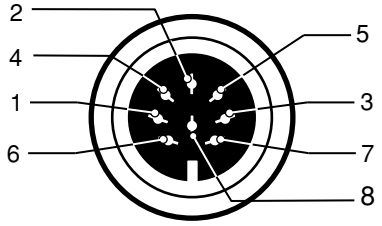
Communications Specifications

Standard Communications	Built-in RS-232 port for one or two-way cable communication to terminal or other host up to 38.4K BPS. Programmable RTS/CTS (hardware) and XON/XOFF protocols are supported. Default communications parameters are: Handshaking = RTS/CTS, Baud Rate = 19,200 Parity = None; Data Bits = 8; Stop Bits = 1
Wireless Communications	Optional infrared communications via industry standard IrDA specifications. Optional Bluetooth radio Wireless LAN via 802.11b protocol (Cameo 3 only)

Communications Port

Pin Number	Pin Name	Signal Type	Signal Description
1	RXD	input	Receive Data
2	TXD	output	Transmit Data
3	CTS	input	Clear To Send from host
4	RTS	output	Request To Send set high when printer is ready to accept command/ data
5	GND		Ground
6	NC		No Connect
7	DSR	input	Data Set Ready: Low to high transition turns printer on, High to low transition turns printer off (if enabled)
8	DTR	output	Data Terminal Ready high when printer is on (set at battery voltage for “S” models)

Communications Port



Communications Port
(8 pin Circular DIN)

Media Specifications

Media Width settings available with edge guide

(all dimensions ±.05” [±1.3 mm]

Cameo 2 Series	Cameo 3 Series
0.72 (18.2 mm)	1.47 (37.3 mm)
0.85 (21.6 mm)	1.60 (40.64 mm)
0.97 (24.6 mm)	1.72 (43.7 mm)
1.10 (27.9 mm)	1.85 (47.0 mm)
1.22 (31.0 mm)	1.97 (50.0 mm)
1.35 (34.3 mm)	2.10 (53.3 mm)
1.47 (37.3 mm)	2.22 (56.4 mm)
1.60 (40.64 mm)	2.35 (59.7 mm)
1.72 (43.7 mm)	2.47 (62.7 mm)
1.85 (47.0 mm)	2.60 66.0 mm)
1.97 (50.0 mm)	2.72 (69.1 mm)
2.13 (54.1 mm)[1]	2.85 (72.4 mm)
	2.97 (75.4 mm)
	3.10 (78.7 mm)[1]

1. This width available only with edge guide removed.

	Cameo 2	Cameo 3
Max. Print Width	1.9" (48.3 mm)	2.83” (71.9 mm)
Max. Roll O.D.	2.25” [57 mm]	2.25” [57 mm]
Core Diameter	.75” [19 mm] min.	.75” [19 mm] min.

Media Type

- Paper Journal
- Labels (Cameo 2 ^{plus})
- Two-part thermal receipts
- Linerless labels (on linerless models only)
- Drop-in stock loading

Resident Hardware/Memory Features

- 25 Resident fonts
- Optional international character fonts
- Flash memory for down-loadable programs, label formats, fonts and graphics
- Fully scalable fonts
- Built-in graphics support

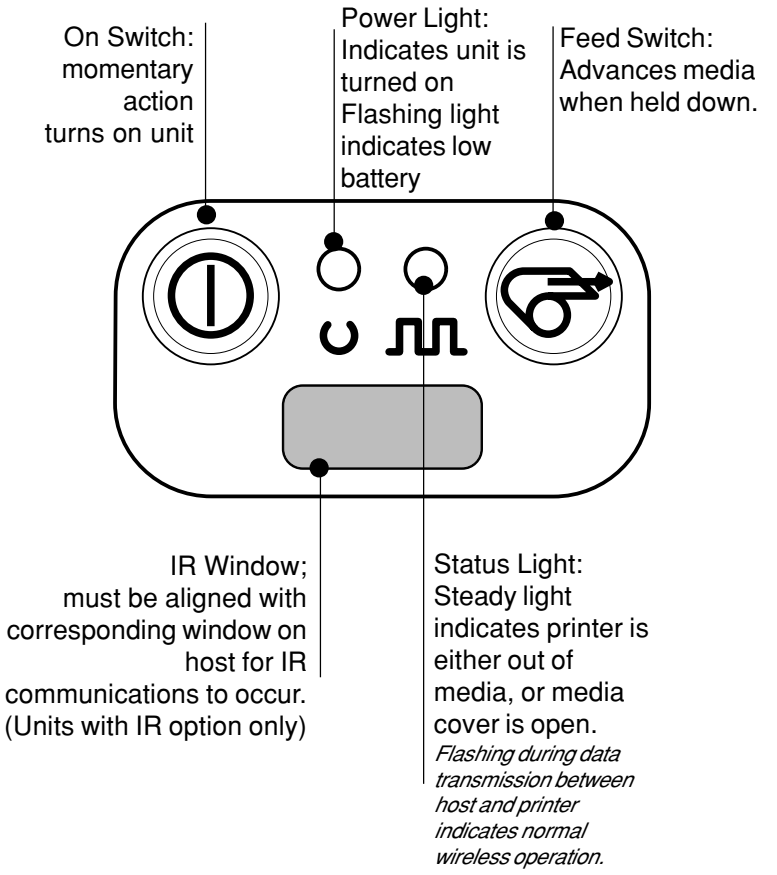
Software Features

- Vertical or horizontal printing
- Left, right, or center justification
- Scale to fit
- Concatenation
- Line print mode- ideal for receipt printing
- Programmable label odometer with on-demand terminal reporting
- Serial number reporting to terminal on demand
- Automatic print head temperature compensation
- Programmable inactivity shut-off
- Out of paper/open cover error LED indicator
- Power On/Off from terminal or built-in keypad

Accessories and Options

- Single battery pack fast charger/conditioner
- Four battery pack fast charger/conditioner
- Vehicle Charger
- Extra NiMH battery pack
- Variety of interface cables
- IrDA Option
- Bluetooth™ wireless interface option
- Optional wireless LAN (802.11b) capabilities
- Soft carrying case
- Protective rubber boots for severe use

CONTROL PANEL


On Switch: momentary action turns on unit
Power Light: Indicates unit is turned on Flashing light indicates low battery
Feed Switch: Advances media when held down.
IR Window; must be aligned with corresponding window on host for IR communications to occur. (Units with IR option only)
Status Light: Steady light indicates printer is either out of media, or media cover is open. Flashing during data transmission between host and printer indicates normal wireless operation.

Keypad Functions

Self Test

Cameos can perform a self test which will print a line of interlocking “x” characters to insure all elements of the print head are working, and then print out the version of software loaded in the printer. Refer to the Troubleshooting section for details on interpreting the self-test.

To run the self test:

1. Press the "FEED" key.
2. While still holding down the "FEED" key, turn the printer ON by pressing and releasing the "ON" key.
3. Keep the "FEED" key depressed until self test starts. The Cameo will perform the self test and remain on.

COMMUNICATIONS

The printer must establish communications with a host terminal which sends the data to be printed. Communications occur in four basic ways:

- By a cable between the printer and its host terminal
- Linking to a host terminal via Infrared (usually by means of the industry standard IrDA protocol)
- By means of a Bluetooth™ short range radio frequency link.
- By means of a wireless LAN (Local Area Network) per 802.11b specifications.

Cable Communications

CAUTION. The power should be turned off before connecting or disconnecting the communications cable.

Every Cameo printer can communicate by cable; the specific cable supplied with your printer will vary with the host terminal. The 8- pin circular connector on your communications cable plugs into the serial communications port on the side of the printer. The connector is keyed to assure correct alignment; do not try to force the cable if it does not plug in. The other end of the cable must be plugged into the host terminal or to a serial port on a computer. Communications between the terminal and the printer are controlled by the applications running on the terminal and the printer.

IR Communications

Printers equipped for infrared (IR) communications are identified by a small “IR” logo on the unit’s label. IR allows wireless communications between the printer and the host terminal. IR units can also communicate with a cable as detailed above, however, IR functions are disabled when the cable is plugged in. Printers with the IR option can be configured to conform to the standard IrDA communications protocol

Linking a Printer to an IrDA Host

IrDA compliant terminals will automatically initiate communications to the printer. First insure that there is a direct line of sight between the printer and the terminal that will be sending data. The IR window on the front of the printer must face the corresponding window on the terminal to properly send and receive signals. An IrDA compliant terminal will seek out any linkable devices and establish communications between them, even turning the printer on if necessary.

Wireless LAN

Cameo Printers can be equipped with a several radio options using the industry standard 802.11 or 802.11b protocol. These printers will have the FCC I.D. number of the radio on the product label. They allow wireless communication as a node within a local area network, (LAN) and its wireless capabilities allow communications from any point within the LAN's perimeter. Methods of establishing communications to the Cameo printer will vary with each LAN application.

General information on establishing WLAN communications can be found in the Programmers Manual available on -line at:

http://www.zebra.com/SS/manuals.htm

NOTE: For further information regarding the 802.11 communication options, refer to the safety and regulatory information included in the Cameo User's Manual. You may download the User's Manual from Zebra at:

http://www.zebra.com/SS/manuals.htm

Wireless Communications with Bluetooth™

"Bluetooth" is a worldwide standard for the exchange of data between two devices via radio frequencies. Bluetooth radios are relatively low powered to help prevent interference with other devices running at similar radio frequencies. This limits the range of a Bluetooth device to about 10 meters (about 32 feet).

Both the printer and the device it communicates with must follow the Bluetooth standard.

In order to exchange data, two Bluetooth enabled devices must establish a connection. Bluetooth software is always running in the background, ready to respond to connection requests. One device (known as the *master* or the *client)* must request a connection with another. The second device (the *slave* or the *server*) then accepts or rejects the connection. A Bluetooth enabled QL 420 will normally act as a slave, but in theory any Bluetooth device can be either a master or a slave. This miniature network is sometimes referred to as a "piconet" and can consist of several Bluetooth enabled devices.

Each Bluetooth printer has a unique Bluetooth Device Address (BDA) loaded when manufactured. For the most part, communications using the Bluetooth protocol are initiated and processed without any operator intervention, much like the IrDA system described previously. Information on Bluetooth communications can be found in the Programmers Manual available on -line at:

http://www.zebra.com/SS/manuals.htm

NOTE: For further information regarding the Bluetooth communication option, refer to the Bluetooth safety and regulatory information included in the Cameo User's Manual. You may download the User's Manual from Zebra at:

http://www.zebra.com/SS/manuals.htm

VERIFY THAT THE PRINTER IS WORKING

Verifying that the Printer Is Working

Before you connect the printer to your computer or portable data terminal, make sure that the printer is in proper working order. You can do this by printing a configuration label using the two-key reset method. Refer to the next section, “Print a Configuration Label.”

PRINT A CONFIGURATION LABEL

The printer can create a configuration label which exercises all of the printhead's thermal elements and creates a detailed report of the printer's settings and any special files that may be loaded into memory. This label can be used as an initial tool to diagnose such basic printer problems as missing printhead elements, missing or incorrect application files, or incorrect settings.

Printing a Configuration Label

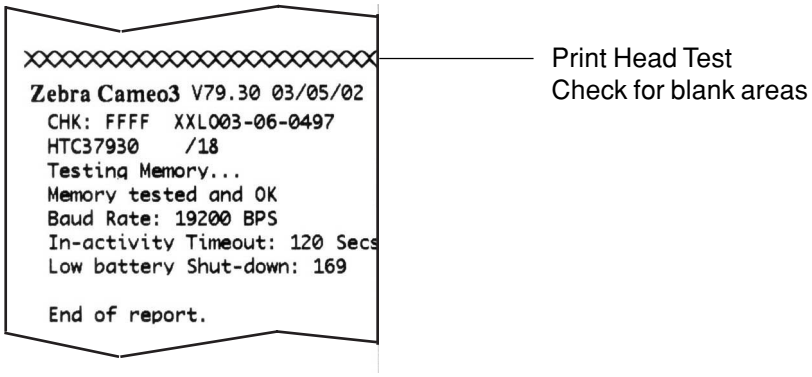
1. Turn the printer off. Load the media compartment with journal media (media with no black bars printed on the back)
2. Press and hold the Feed Button.
3. Press and release the Power button and keep the Feed button pressed. When printing starts, release the Feed button.

The printer prints

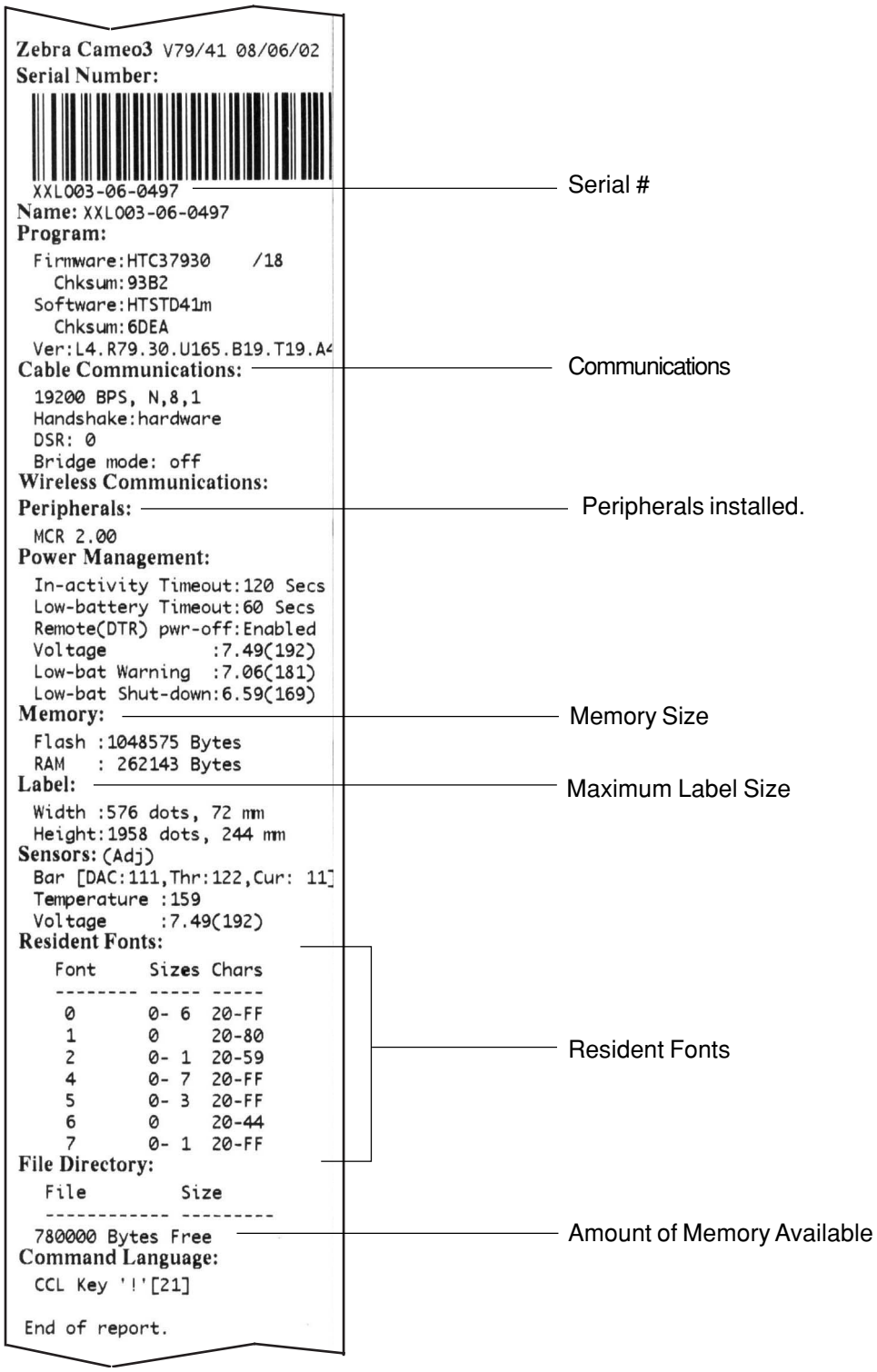
- a line of interlocking "x" characters to insure that all elements of the printhead are working
- the version of software loaded in the printer
- a report that indicates model, ROM version, serial number, baud rate, etc.
- a report with more detailed information on the printer's configuration and parameter settings.

Note: If no second report appears, there is no application loaded.

Sample Configuration Label



Sample Configuration Label (continued)



This page intentionally left blank.

SECTION 2 • CAMEO REPAIR PROCEDURES

This section describes how to replace parts that you can purchase to repair your Cameo printer.

TOOLS AND SUPPLIES

Make use of the following tools and supplies for maintaining the printer and installing the repair kits:

Hand Tools

- #1 Phillips Head Screwdriver
- #1 Slot Head Screwdriver.
- 3/32” Hex Driver
- ESD strap and mat

Supplies

- Cleaning Pen (10 pack), p/n AN11209-1
- Cleaning Kit with Cleaning Pen, and Cotton Swabs p/n AT702-1
- Isopropyl Alcohol
- Media, Batteries, and Chargers
- Super-Bond Tape, 1/2", p/n AT13598-1

STORAGE AND HANDLING

Handling

The use of an ESD wrist strap at a properly grounded workstation is required when handling printed circuit boards or other sensitive electronic components. The ESD strap prevents any electro-static damage to occur while assembling these components. The use of the ESD strap will be noted in the applicable instructions.

Use of the ESD strap will be noted in the instructions by this symbol.

Storage

Replacement kits which are sensitive to ESD damage are supplied in static resistant packaging. Always keep these parts in their original packaging until they are to be installed.

CLEANING

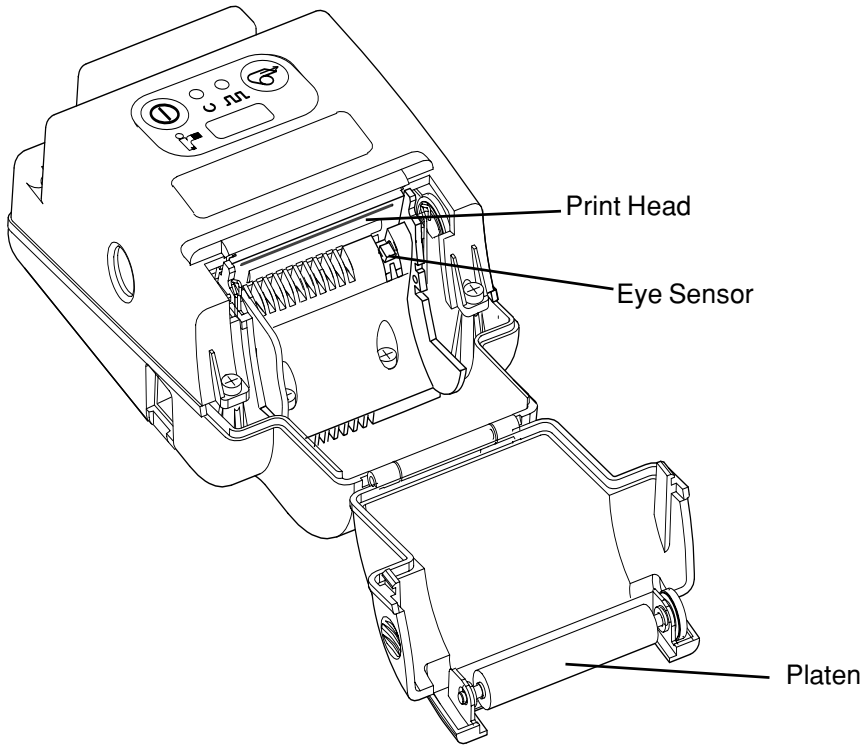
Never use any sharp objects on printer mechanism as it could damage the print head and platen. Use only the supplied cleaning pen or a cotton swab saturated with alcohol for cleaning. Always turn the printer off prior to any cleaning operation.

Caution: Use care when handling the Printer Assembly to avoid being cut on the serrated edge of the Tear Bar.

Cameo printers will provide years of reliable service provided a few simple guidelines are followed. The printer should be cleaned approximately every two weeks or more often, depending on usage and the type of media being employed. Components of the printer that require periodic maintenance are the print head, print roller (platen), and the media sensor. When cleaning, please use only isopropyl alcohol, the same type included in the Cleaning Kit. Always use Zebra label or ticket stock for maximum print quality and extended printer life.

Cleaning the print head

- Always turn the printer off prior to any cleaning operation.
- Open the printer by squeezing the finger grips on either side of the media compartment cover.
- Swing the media compartment cover open.
- Use the cleaning pen supplied with the printer and/or alcohol and cotton swabs to clean the surface of the print head, the platen, and the sensor.



Cleaning the platen (print roller)

Applies to printers configured for linered media only

- Open the printer by squeezing the finger grips on either side of the media compartment cover and swinging it open.
- Gently clean the platen with the cleaning pen supplied with the printer and/or alcohol and a cotton swab while rotating the platen.

Cleaning the Media Sensor

The Media sensor is located inside the media compartment under the print head. Blow out any dust deposits carefully, then finish cleaning with the cleaning pen supplied with the printer and/or alcohol and cotton swabs.

The Cameo 2^{plus} has a Sensor Assembly that is mounted external to the printer mechanism. (Refer to detail on the previous page). The same cleaning procedure should be followed for this sensor, paying particular attention to cleaning dust from within the gap the media passes through.

Linerless Media Printers

Printers using linerless media require more frequent cleaning. Linerless media deposits adhesive which must be removed for optimum performance. Linerless printers can be identified by a platen which is *not* black, or by reading the unit's fifteen digit Product Configuration Code (PCC) label on the back of the printer. PCC digit "8" will be "B", ""D", "F", or "H" for linerless printers.

Note: It is not necessary to clean the platen on linerless units. The platen material is self cleaning and will not require constant maintenance.

When cleaning, use only the Cleaning Pen provided with each printer or isopropyl alcohol.

- Open the printer by squeezing the finger grips on either side of the media compartment cover.
- Surfaces inside the media compartment that come in contact with the linerless media adhesive should be cleaned, along with:
  - Print mechanism area around the Sensor
  - Printhead
  - Inside surface of the edge guide

Allow printer to dry before resuming printing.

Never use any sharp objects on the printer mechanism as it could damage the print head. Use only isopropyl alcohol, the supplied cleaning pen and /or a cotton swab for cleaning the printer.

Self Test:

Perform the self test as described in the Controls section. The unit should print a line of interlocking “x” characters to insure all elements of the print head are working, print out the version of software loaded in the printer and then print two reports. The first report indicates model, ROM version, serial number, baud rate, etc. The second report contains application information. If no second report appears, there is no application loaded.

Cameo 3N units will also print out a “RF LAN Information” section with information regarding the printer’s status on your facility’s’s wireless Local Area Network (WLAN).

Troubleshooting Guide

No power

- Check battery, recharge or replace as necessary.

Media does not feed:

- Be sure media compartment cover is closed and latched.

Poor or faded print:

- Clean print head.
- Check/replace battery.
- Check quality of media.

Partial/missing print:

- Check media alignment
- Clean print head.
- Verify media compartment cover is closed and latched

Prints illegible characters:

- Check baud rate.

No print:

- Check baud rate
- Replace battery
- Check cable connection to terminal
- Wireless units: verify communication link between printer and terminal

Continued on Next Page

No print (Continued):

- Network printers: refer to the RF LAN Information section of the Self Test printout to verify the printer's SSID and IP addresses are correct, and that the printer is "associated" with the wireless LAN.
- Invalid label format or command structure — use Hex Dump Mode for troubleshooting. Refer to the Programming Manual for more information.

Reduced battery charge life:

- Recondition (cycle) battery.
- Damaged battery-replace.
- Check battery date code: if one to two years old, short charge life may be due to normal aging.

Status light flashing and beeper chimes:

- No application: reload program.

Status light flashing

- If using SRRF communications: normal indication while data is being received.

Status light always on:

- Check media is loaded and media compartment cover is closed and latched

Communication Error:

- Check media is loaded, media compartment cover is closed and latched, and error light is off.
- Check baud rate.
- Replace cable to terminal.

MEDIA COVER, CAMEO 2 - AN16793-005 & CAMEO 3- AN16794-003

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

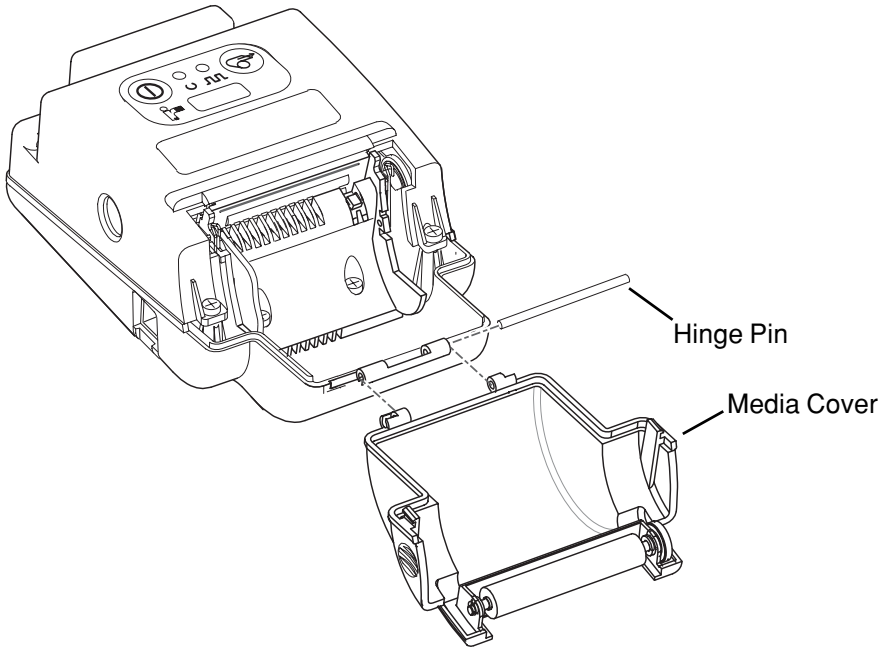
Tools

- #1 Slot Head Screwdriver.

Removing the Media Cover

1. Open the Media Cover and remove media.
2. Remove the Media Cover.

   Carefully press the Hinge Pin from right to left through the media cover hinge until the media cover is free.

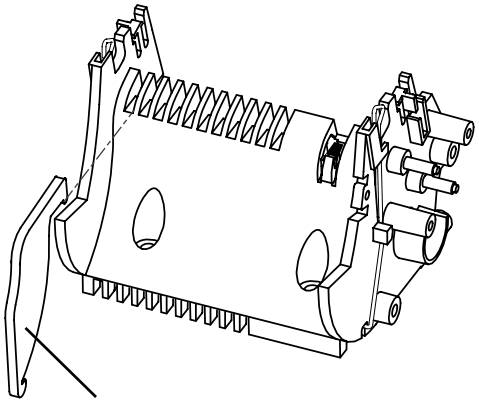


Installing the Media Cover

1. Install the Cover.

   Line up the Media Cover hinges with the Lower Cover hinges and press the Hinge Pin through the covers in the direction shown (from the side with the gear). Press the pin until it stops.
2. Insert media and close the cover.

EDGE GUIDE, CAMEO 2 & 3 - AN16793-009 CAMEO 2 & 3



Edge Guide
Molded-in writing faces this side.

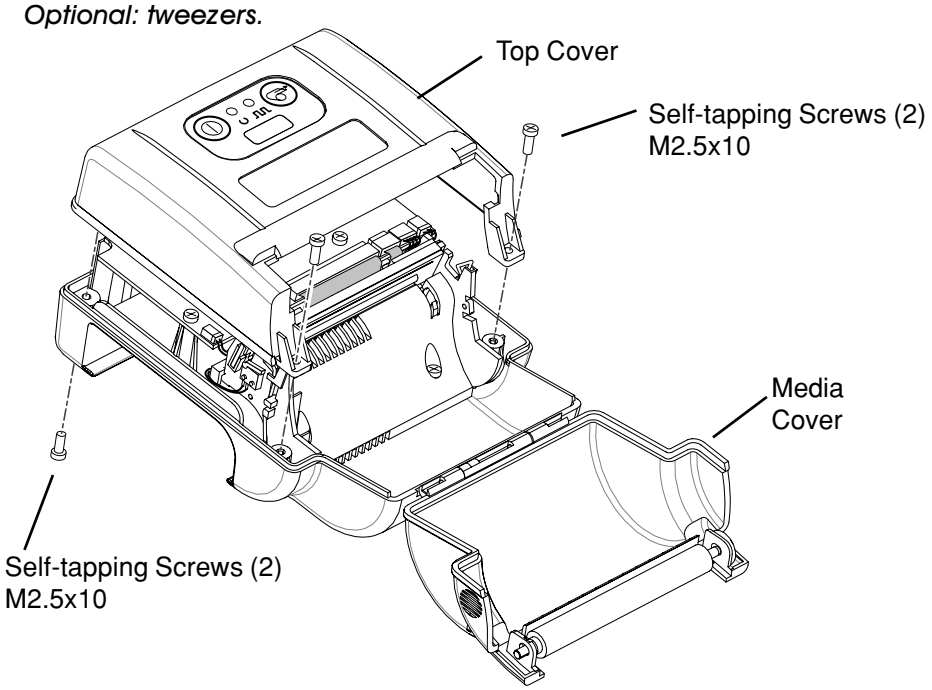
Installing the Edge Guide

Install the Edge Guide as shown. It should snap into the far left slot per the illustration. The “Paper This Side” text molded into the Edge Guide should face towards the center of the printer.

TOP COVER, CAMEO 2 - AN16793-021 & -022 & CAMEO 3- AN16794-023 & -024

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

The Tear Strip on the Printhead Assembly is very sharp! Use care in handling it. Always perform this procedure at a grounded workstation to prevent static electricity from damaging electronic components. Tools required: Small flat bladed screw driver. Optional: tweezers.



Removing the Top Cover

Turn the printer off, remove the battery pack, open the media cover, remove the media, remove the 4 screws (2 top and 2 on bottom as shown) that secure the cover, and remove the cover.

Installing the Top Cover

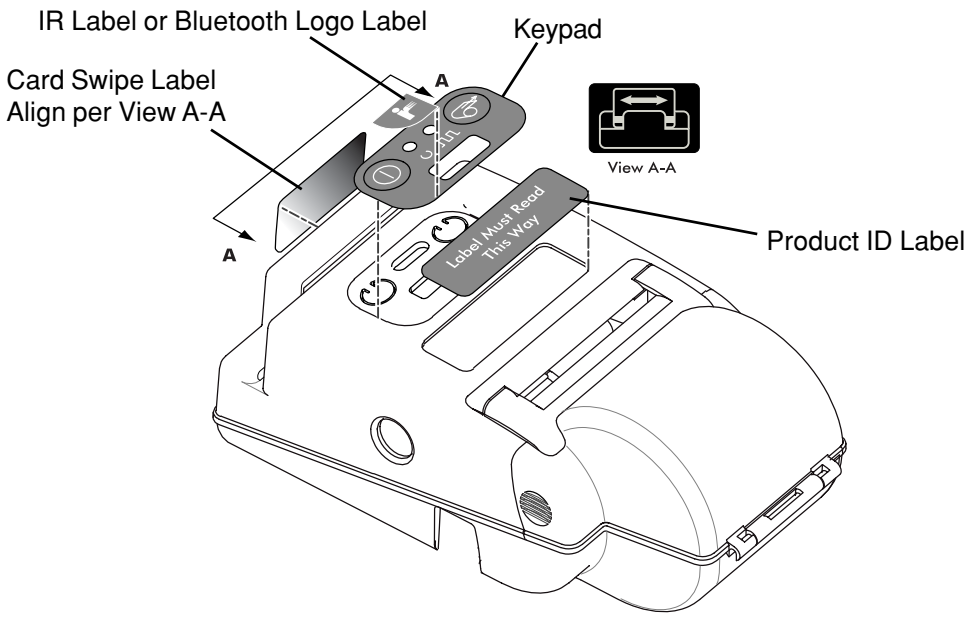
1. Place the Top Cover on the Chassis and secure it with (2) M2.5 x 10 mm Self-Tapping Screws on the top of the printer, and with 2 on the underside of the printer in the recessed holes near the back of the Printer.

   If you are assembling a unit with the 916 MHz SRRF option (PCC digit 7 = 3), insure that the wire from the Antenna is not pinched between the top and bottom covers and that the Antenna is captured between the two bosses at the rear of the top cover.

   If you are assembling a unit with the 2.4 GHz SRRF option (PCC digit 7 = 4), insure that the Antenna is captured between the two bosses at the rear of the top cover.

2. After securing the top cover, replace the battery, load the printer with media and do a two-key reset. Verify that all elements of the printhead are printing by inspecting the line of inter locking “x” characters produced by the two-key reset report.

LABELS AND KEYPAD, CAMEO 2 & 3- AN16793-001



Removing a Keypad or Label

Pry and peel the label or keypad. Using alcohol and a scraper, carefully remove any glue residue from the surface.

Attaching a Keypad

Remove the adhesive backing from Keypad, carefully align the label with the recess in the Cameo Top Cover as illustrated, and press the keypad in place.

Attaching a Bluetooth Label

A Bluetooth label is used if your printer is configured with Bluetooth (PCC digit 7 = B or 4): Apply the Bluetooth Logo Label over the Keypad, carefully aligning it to sit properly on the Keypad.

Attaching an IR Label

If PCC digit 7 = 2, apply the IR Label over the Keypad as shown.

Attaching a Product ID Label

Remove adhesive backing from Product ID Label and carefully align in well for Product ID and apply to Top Cover. Note orientation of text in illustration on opposite page.

Attaching a Card Swipe Label

If PCC digit 12 = 1 or 4:

Turn the Cameo so that you face the end of the printer as in View A-A. Place the Card Swipe Label in the recess in the Top Cover, as shown. The “double arrow” on the Swipe Label should face towards the top of the printer.

CPU BOARD, CAMEO 2- AN16793-013 & -014

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

The Tear Bar on the Printer Assembly has sharp edges. Use caution when performing operations near the printer.

Removing the CPU Board

1. Remove the media and battery. Refer to the *Cameo Portable Printers User's Manual*.
2. Remove the Top Cover. Refer to "Top Cover - Cameo 2 & 3."
3. Remove the 4 screws from the CPU Board.
4. Unplug all cables from the CPU Board, and remove the CPU Board.
5. Unplug the SRRF module from the CPU Board.

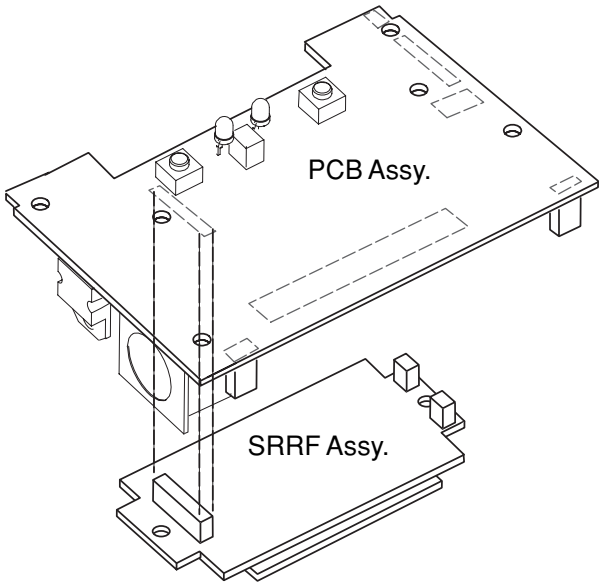
Installing the CPU Board

1. Install the SRRF Module (PCC digit 7 = 2, 3, 4, 6, 8, 9, B)

   1a. Plug the SRRF Assembly into the bottom of the CPU Board. The 8-pin connector on the SRRF Assembly plugs into the connector on the bottom of the CPU Board marked RF1.

   1b. Install the Antenna (PCC digit 7 = 9 or B) (See illustration on next page)

   Attach the Antenna lead to the Radio Module. If necessary, secure it to the lower chassis with Super-Bond tape. Refer to the appropriate SRRF section for further information on the SRRF options.

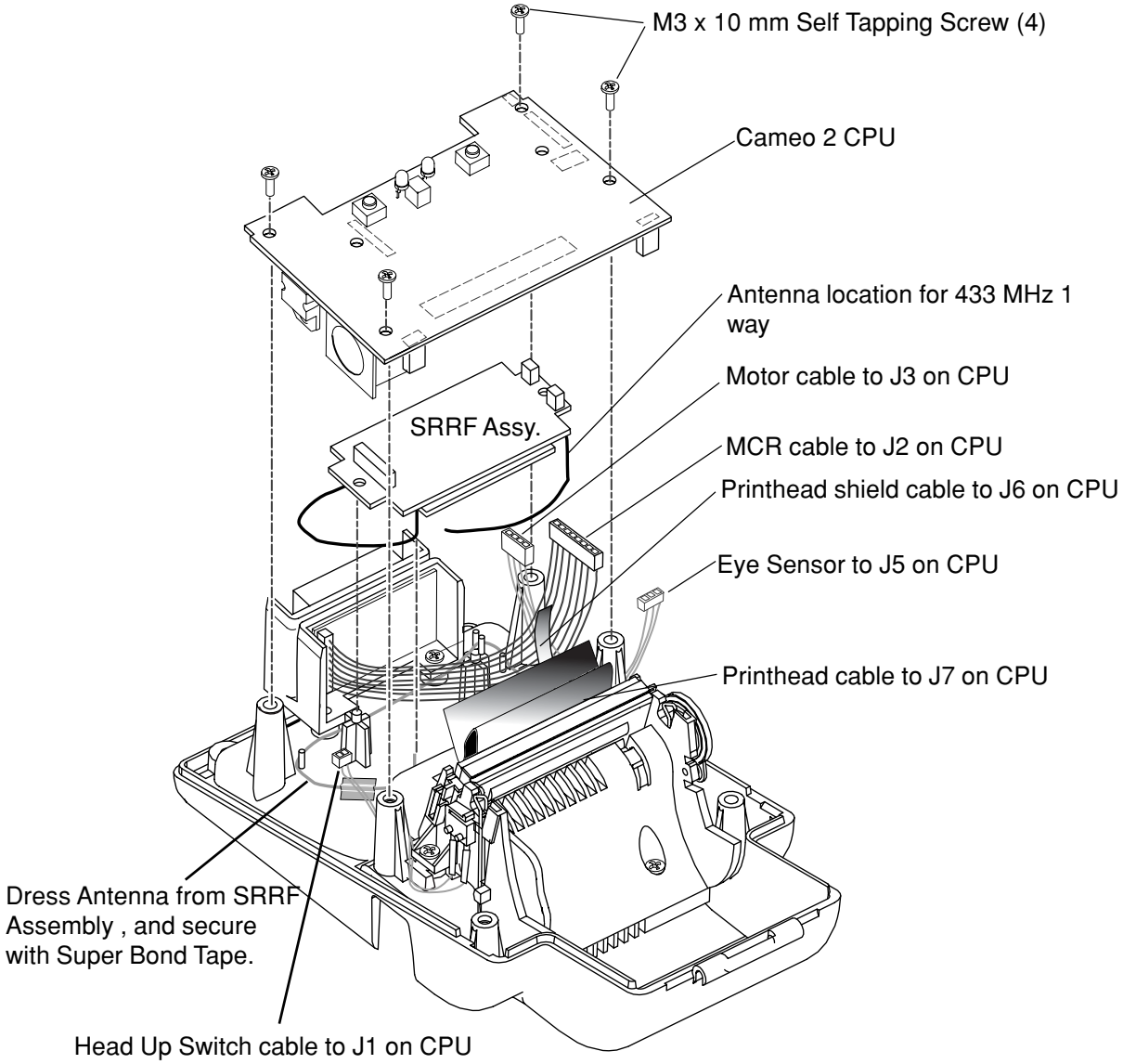


2. Connect the Cables to the CPU Board

Warning: The Tear Bar on the Printer Assembly has sharp edges. Use caution when working near the printer.

Plug cables into the CPU board as follows:

From	# of pins	to CPU Connector #
Head-Open Switch	2	J1
MCR (PCC digit 12 = 1 or 3)	8	J2
Printer Motor	4	J3
Printer Eye Sensor	3	J5
Printhead Ground	Flex circuit	J6
Printhead	28 Circuits Flex	J7
	7	J10
SRRF (PCC digit 7 = 2, 8 or B)	8	RF1


M3 x 10 mm Self Tapping Screw (4)
Cameo 2 CPU
Antenna location for 433 MHz 1 way
Motor cable to J3 on CPU
SRRF Assy.
MCR cable to J2 on CPU
Printhead shield cable to J6 on CPU
Eye Sensor to J5 on CPU
Printhead cable to J7 on CPU
Dress Antenna from SRRF Assembly , and secure with Super Bond Tape.
Head Up Switch cable to J1 on CPU

Install the CPU Board

Warning: When installing the CPU, make sure that all cables are properly routed and not being stretched or crimped.

3. Dress the Antenna attached to the SRRF Assembly and secure with Super-Bond tape.
4. Carefully move all wires away from the two slots in raised area directly behind the printer. Attach the CPU board to the printer chassis with (4) M3 x 10 mm Self-Tapping Screws.

   Note: The SRRF Board must be retained by the two bosses on the Lower Case.

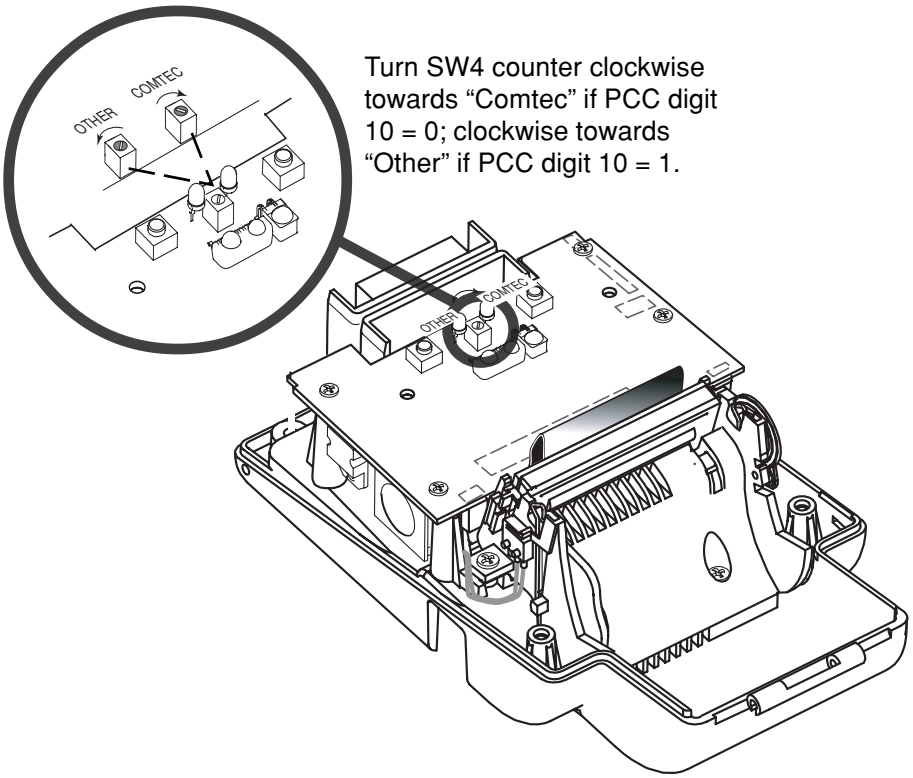
   Note: Insure that the battery contacts on the bottom of the CPU board fit through the two slots in raised area directly behind the printer without pinching any cables, and that no cables are pinched between the PC Assembly and its mounting posts.

5. Set the Symbol Compatibility Switch

   Using a small slotted-head screwdriver, turn SW4 on the CPU Board:

   If PCC digit 10 = 0, set SW4 to the “Comtec” setting by turning the switch counter-clockwise until it stops.

   If PCC digit 10 = 1, set SW4 to the “Other” setting by turning the switch clockwise until it stops.



6. Install the Top Cover. Refer to “Top Cover - Cameo 2 & 3.”
7. Install the Battery and Media. Refer to the *Cameo Portable Printers User’s Manual*.

SRRF MODULES, CAMEO 2, 916 MHZ,- AN16793-026; 2.4 GHZ- AN16824-013- & BLUETOOTH- AN16793-032

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Be careful not to damage the actuator on the head open switch while working on the Cameo Chassis.

Installing the SRRF module (PCC digit 7 = 3, 4, or B)

NOTE: If you are installing a Bluetooth radio module for use in Japn, you must attach the Bluetooth Japan Regulatory label (p/n AA17023-1) over the existing FCC ID label on the radio module prior to installation.

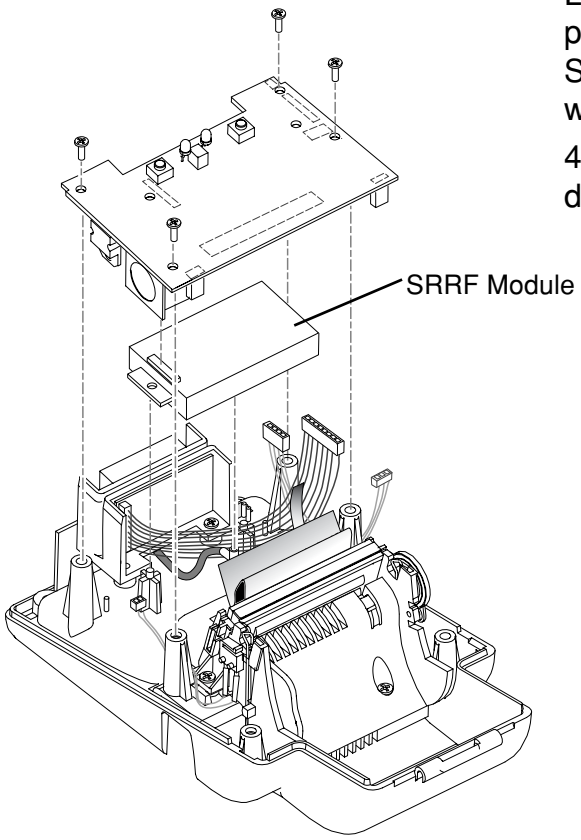
1. Plug the Antenna into the SRRF module.

   Plug the Antenna into the antenna socket in the SRRF module. The antenna socket is on the side of the SRRF module that does not have any connectors.

2. Plug the SRRF module into the bottom of the CPU Board. The 8-pin connector on the SRRF module plugs into the connector on the bottom of the CPU Board marked RF1.

3. Install the Antenna board in the chassis. Refer to the appropriate antenna section that follows on the next 2 pages.

   Insert the Antenna into the very bottom edge of the Chassis. Dress the antenna lead between the mounting bosses on the Lower Chassis so that the wire is not pinched when the top cover is installed. Secure the antenna to the lower chassis with Super-Bond tape.



4. Complete the installation as described in “CPU Board - Cameo 2.”

916 MHZ ANTENNA, CAMEO 2 - AN16730-031

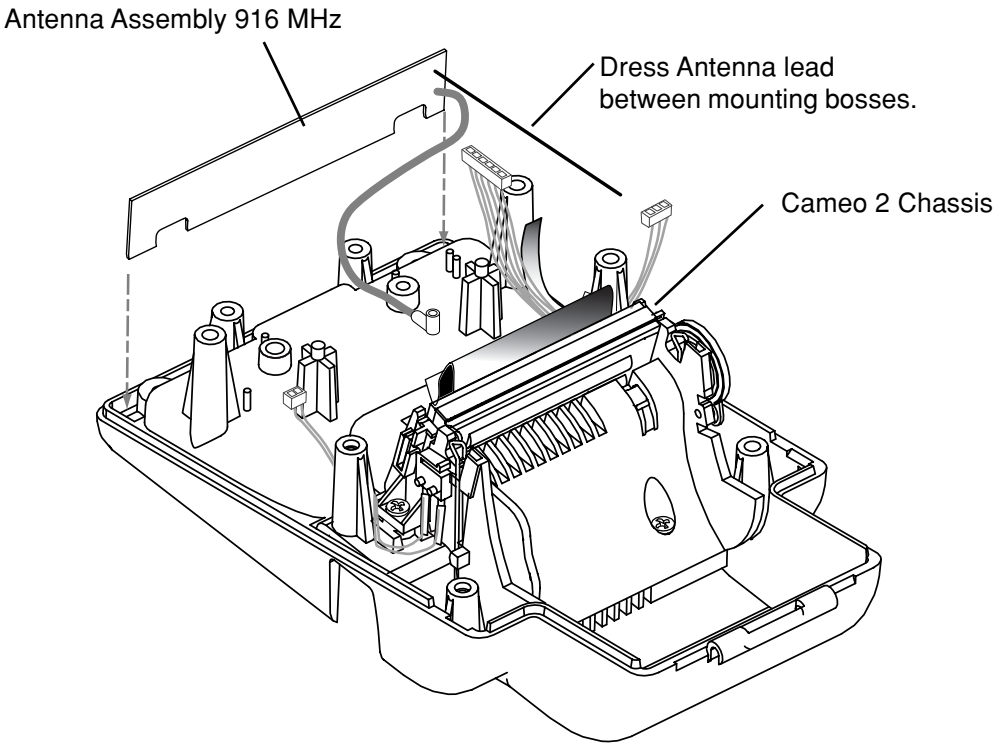
You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Be careful not to damage the actuator on the head open switch while working on the Cameo Chassis.

Installing the 916 MHz Antenna (PCC digit 7 = 3)

Insert the Antenna into the very bottom edge of the Chassis as shown below. Dress the antenna lead between the mounting bosses on the Lower Chassis so that the wire is not pinched when the top cover is installed. Secure the antenna to the lower chassis with Super-Bond tape.

Complete the installation as described in “CPU - Cameo 2.”



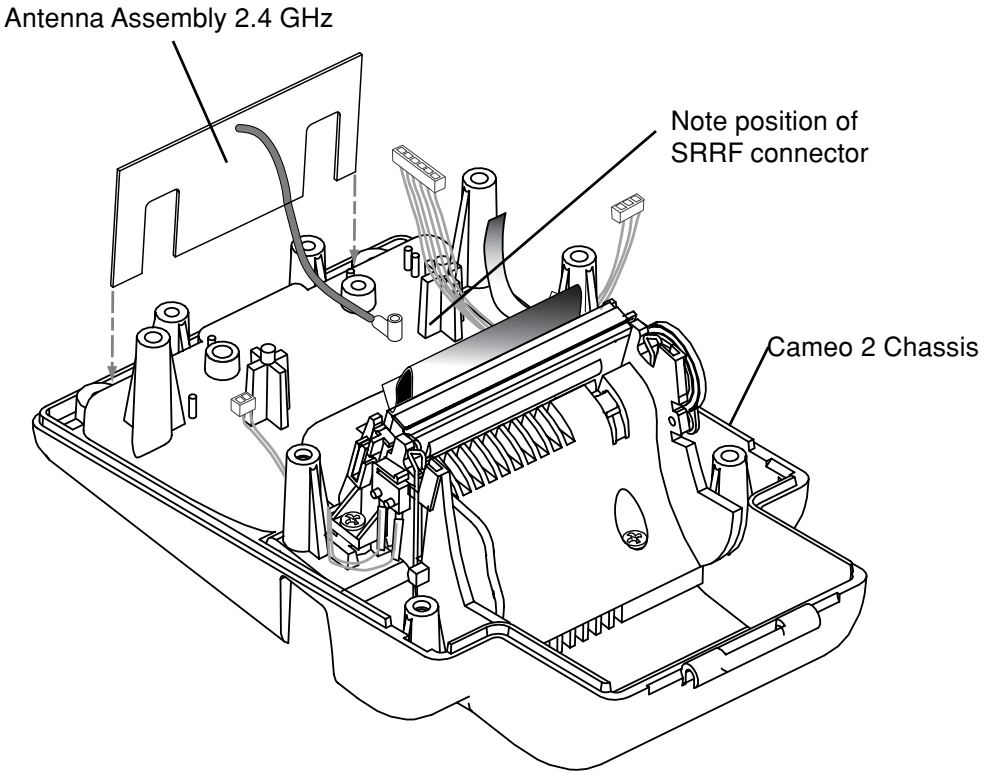
2.4 GHZ ANTENNA, CAMEO 2 - AN16793-019

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Be careful not to damage the actuator on the head open switch while working on the Cameo Chassis.

Installing the 2.4 GHz Antenna (PCC digit 7 = 4 or B)

Insert the 2.4 GHz Antenna at the very bottom edge of the Chassis as shown below. Center the blue coaxial cable on the top of the battery compartment, and slide the antenna board between the two bosses at the bottom of the lower case as shown. Secure the antenna to the lower chassis with Super-Bond tape.



CPU BOARD, CAMEO 3- AN16794-004; 005;006; 007;008 & -009

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Be careful not to damage the actuator on the head open switch while working on the Cameo Chassis.

The Tear Bar on the Printer Assembly has sharp edges. Use caution when performing operations near the printer.

Removing the CPU Board

1. Remove the media and battery. Refer to the *Cameo Portable Printers User's Manual*.
2. Remove the Top Cover. Refer to "Top Cover - Cameo 2 & 3."
3. Remove the CPU Board. Remove the 2 screws from the CPU Board and then push the latch and lift the board from its retainers.
4. Unplug all cables from the CPU Board, and remove the CPU Board.
5. Unplug the SRRF module from the CPU Board.

Installing the CPU Board

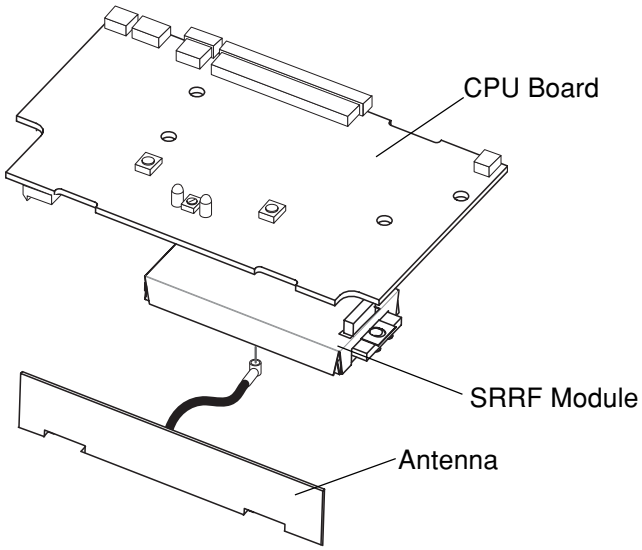
1. Install the SRRF Module (PCC digit 7 = 2-5, 8, 9, or B)

Note: Refer to the appropriate SRRF section for further information on the SRRF options.

1a. If PCC digit 7 = 9 or B, plug the Antenna lead into the SRRF module. Refer to the appropriate SRRF section for further information on the SRRF options.

1b. Plug the SRRF Assembly into SRRF 1 on the bottom of the CPU Board.

1c. If PCC digit 7 = 9 or B, install the antenna and secure it to the lower chassis with Super-Bond tape. Refer to the appropriate SRRF section for further information on the SRRF options.

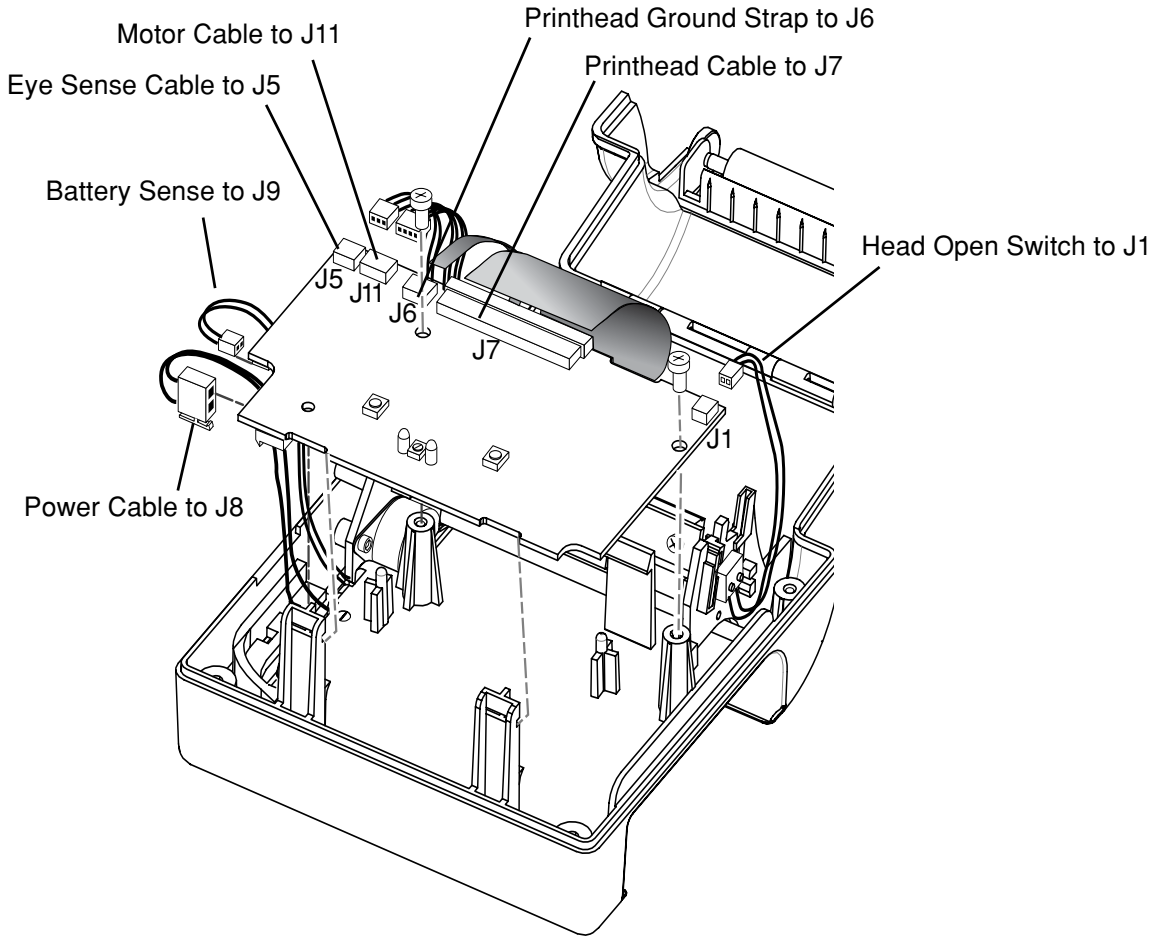


2. Connect the Cables to the CPU Board

Warning: The Tear Bar on the Printer Assembly has sharp edges. Use caution when performing operations near the printer.

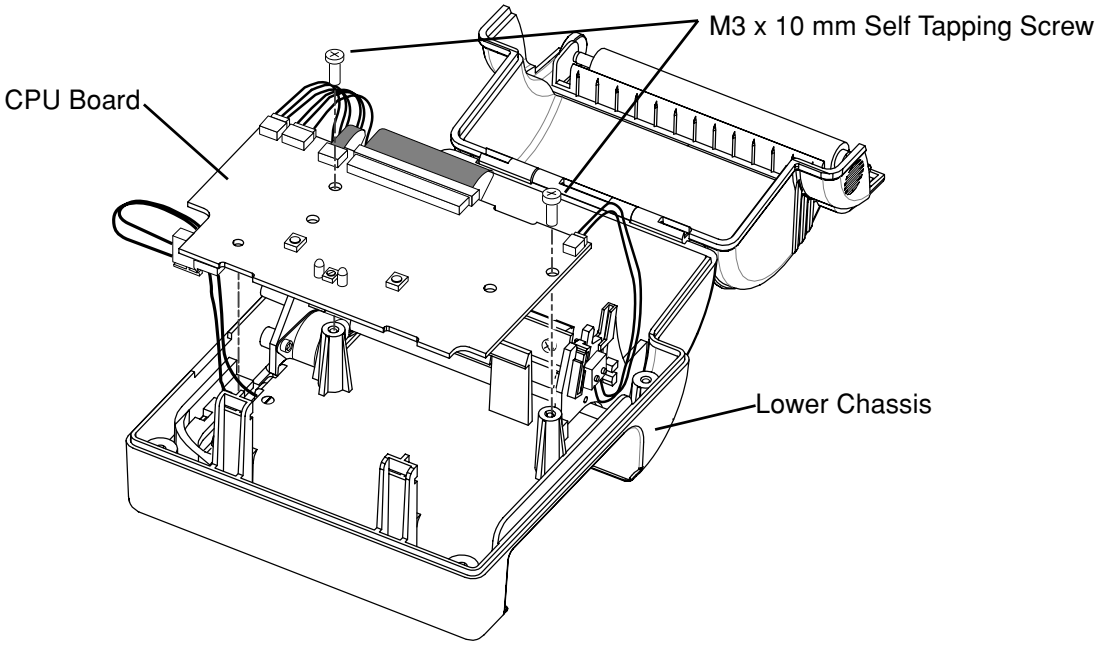
Plug all cables into the CPU board per the following Table:

From	# of pins	to CPU Connector #
Head-Open Switch	2	J1
MCR (PCC digit 12 = 1 or 3)	8	J2
Printer Motor	4	J11
Printer Eye Sensor	3	J5
Printhead Ground	Flex circuit	J6
Printhead	28 Circuits Flex	J7
Power (Battery)	2	J8
Battery Sense	2	J9
802.11b radio (Cameo 3N only)	11	J10
Printer Motor	4	J11
SmartCard Reader	7	J12
SRRF (PCC digit 7 = 2, 8 or B)	8	SRRF1



3. Install the CPU board

   Hook the back edge of the CPU board into the slots on the two spacers molded into the Lower Cover assembly, then rotate the front edge past the snap feature on the Lower Cover Assembly. Secure the CPU board to the Lower Chassis Assembly with (2) M3 x 10mm Self-Tapping Screws.

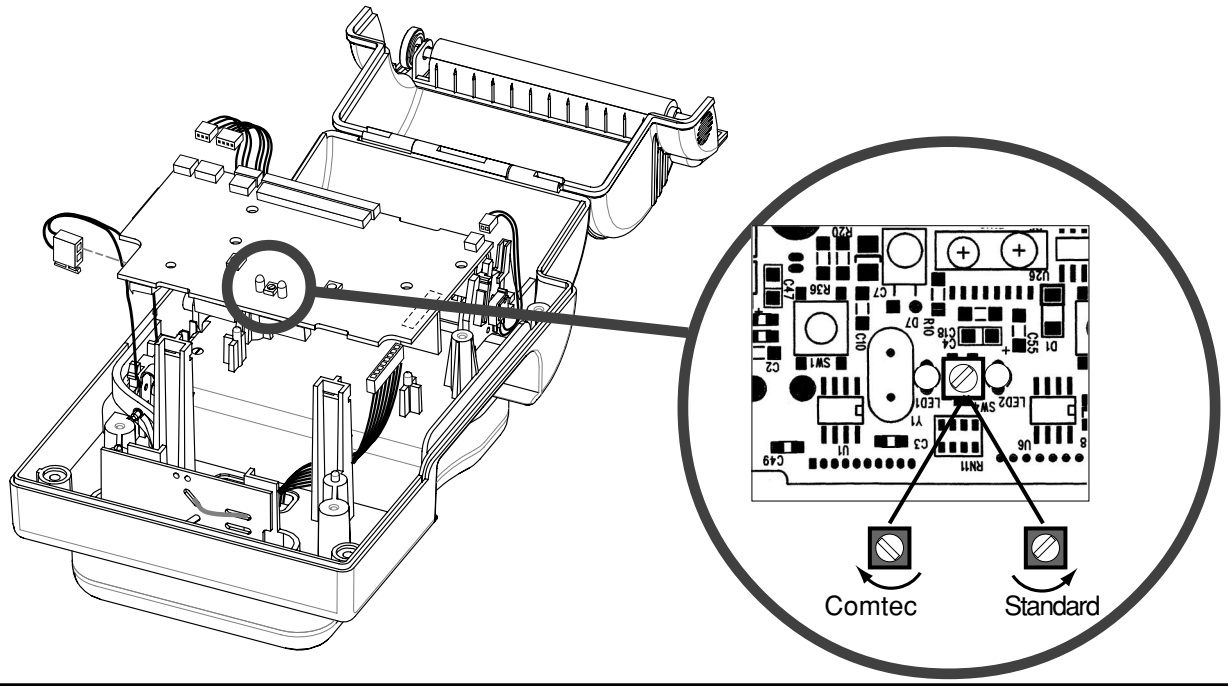


4. Set the Symbol Compatibility Switch

   Use a small (jeweler's size) slotted-head screwdriver.

   If PCC digit 10 = 0, set SW4 to the "Standard" setting by turning the switch counterclockwise until it stops in the position shown below (about 3/4 turn).

   If PCC digit 10 = S, set SW4 to the "Comtec" setting by turning the switch clockwise until it stops in the position shown below (about 3/4 turn).



5. Install the Top Cover. See the section, “Top Cover - Cameo 2 & 3.”
6. Install the Battery and Media. Refer to the *Cameo User’s Manual*.

SRRF ASSEMBLY, CAMEO 3- 916 MHZ- AN16793-026; 2.4 GHZ - AN16824-013 & BLUETOOTH - AN16793-032

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Be careful not to damage the actuator on the head open switch while working on the Cameo Chassis.

Caution: The Tear Bar on the Printer Assembly has sharp edges. Use caution when working near the printer.

Installing the SRRF Assembly (PCC digit 7 = 3, 4, or B)

NOTE: If you are installing a Bluetooth radio module for use in Japn, you must attach the Bluetooth Japan Regulatory label (p/n AA17023-1) over the existing FCC ID label on the radio module prior to installation.

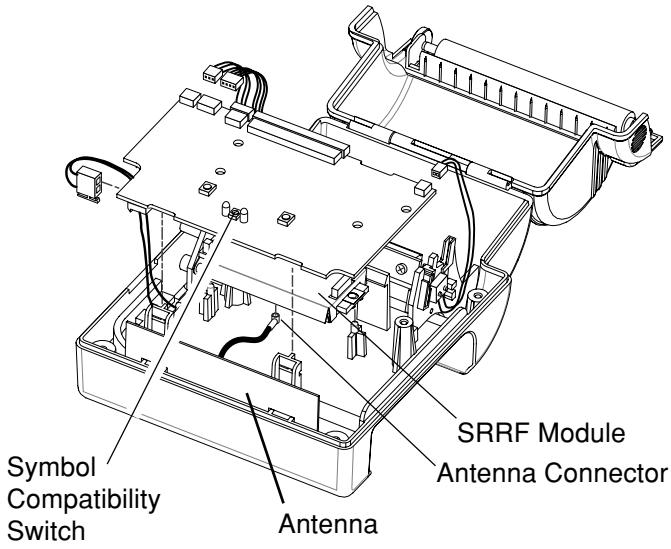
1. Remove the Media. Turn the printer off, remove the battery, open the Media Cover, and remove any media. Refer to the *Cameo Portable Printers User's Manual*.
2. Remove the Top Cover. Remove the 2 Phillipps screws from the back of the printer and remove the 2 Phillipps screws from the front of the printer. Refer to "Top Cover - Cameo 2 and 3."
3. Loosen the CPU board. Remove 2 screws and remove from retaining tabs. See "CPU Board - Cameo 3."
4. Plug the Antenna into the SRRF module.

   Plug the Antenna into the antenna socket in the SRRF module. The antenna socket is on the side of the SRRF module that does not have any connectors.
5. Plug the SRRF module into the CPU Board.

   Plug the SRRF Assembly into the 8-pin SRRF1 connector on the bottom of the CPU Board.
6. Install the Antenna

   Insert the Antenna into the bottom edge of the Chassis, making sure that the antenna lead is properly routed so that it is not crimped when any other component is installed.

7. Set the Symbol Compatibility Switch and complete the system as described in "CPU - Cameo 3."

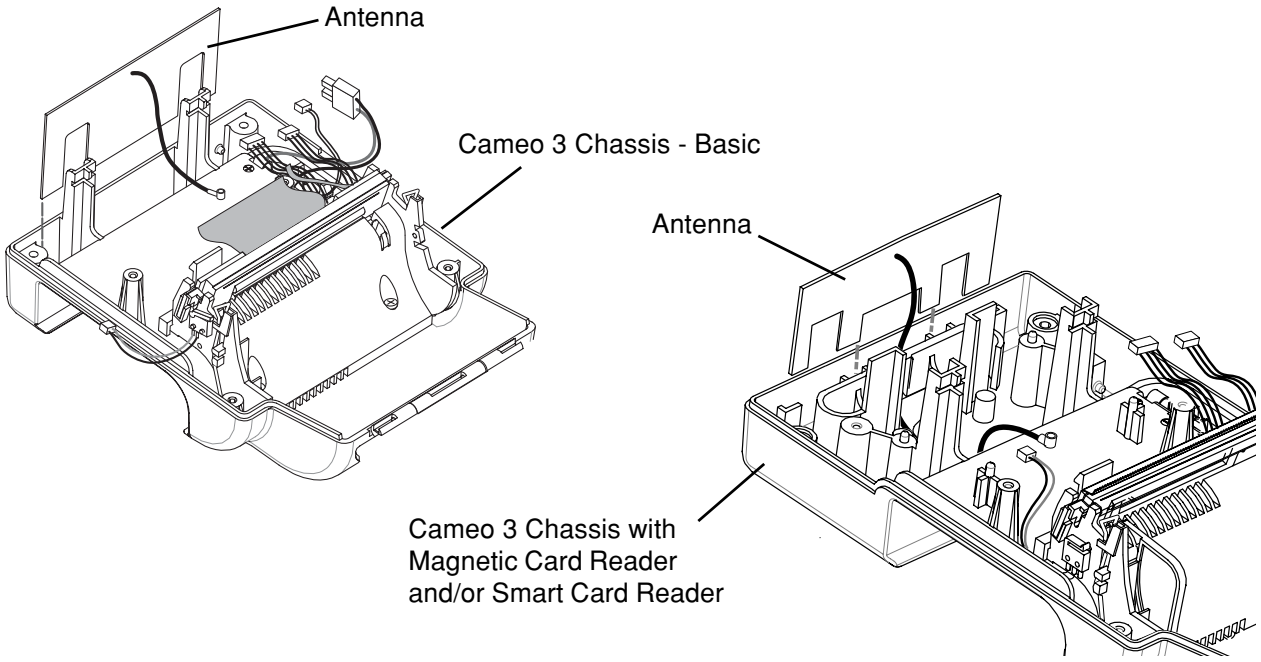


8. Install the CPU Board. See the section, “CPU Board - Cameo 3.”
9. Install the Top Cover. See the section, “Top Cover - Cameo 2 & 3.”
10. Install the Battery and Media. Refer to the *Cameo User’s Manual*.

SRRF ANTENNA ASSEMBLY, CAMEO 3- AN16794-012, 028, 030 & -032 (2.4 GHZ); AN16794-013, -033 & -031 (916 MHZ)

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Be careful not to damage the actuator on the head open switch while working on the Cameo Chassis.



The antenna is used in the following applications:

- 916 MHz SRRF (PCC Digit 7 = 3)
- 2.4 GHz SRRF Installation (PCC digit 7 = 4)
- Bluetooth (PCC digit 7 = B)

Insert the Antenna in the bottom edge of the Chassis, making sure that the antenna lead is properly routed so that it is not crimped when any other component is installed.

PRINT HEAD ASSEMBLY, CAMEO 2- CC14036-1 & CAMEO 3- CC15301-1

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Be careful not to damage the actuator on the head open switch while working on the Cameo Chassis.

Tools:

- #1 Phillips Head Screwdriver.
- #1 Slot Head Screwdriver.
- Spring insertion tool p/n AU16259-1 (optional)
- ESD strap and mat

Removing the Print Head Assembly

1. Remove the Media.

   Turn the printer off, remove the battery, open the Media Cover, and remove any media. Refer to the *Cameo Portable Printers User's Manual*.

2. Remove the Top Cover.

   Remove the 2 Phillipps screws from the back of the printer and remove the 2 Phillipps screws from the front of the printer. Refer to "Top Cover - Cameo 2 and 3."

3. Loosen the CPU board.

   Loosen the CPU Board (4 Phillipps screws in Cameo 2, retaining clips in Cameo 3) as described in either "CPU Board - Cameo 2" or "CPU Board - Cameo 3."

4. Unplug the Print Head Cable and the Ground Strap from the CPU board. Refer to either "CPU Board - Cameo 2" or "CPU Board - Cameo 3."

5. Remove the Print Head Assembly from the Print Mechanism. On each side of the print head, carefully pry the Print Head Latch and carefully pry the Print Head Assembly out of the Print Mechanism.

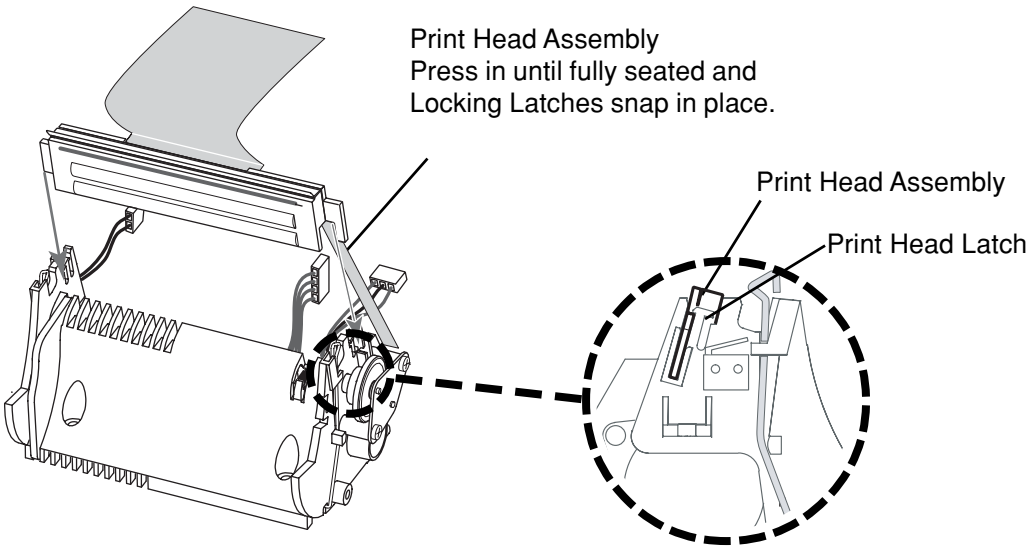
Installing the Print Head Assembly

Caution: Use care when handling the Tear Bar to avoid being cut on the serrated edge.

1. Install the Print Head Assembly.

   Align the Print Head Assembly with the mounting slots in the Print Mechanism and carefully press the Print Head assembly into the slots until the Head is fully seated and the Print Head Latches snap into place, locking the Print Head Assembly in place.

2. Plug all connectors into the CPU board and Install the CPU board. Refer to either "CPU Board - Cameo 2" or "CPU Board - Cameo 3."
3. Install the Top Cover. Refer to "Top Cover - Cameo 2 & 3."
4. Install the Media, close the media cover, and install the battery. Refer to the *Cameo User's Manual*.



LOWER HOUSING, CAMEO 2- AN16793-020

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Be careful not to damage the actuator on the head open switch while working on the Cameo Chassis.

Caution: Use care when handling the Print Mechanism to avoid being cut on the serrated edge of the Tear Bar.

Tools

- #1 Phillips Head Screwdriver.
- #1 Slot Head Screwdriver.
- ESD strap and mat

Remove the Print Mechanism, CPU Board. Mag Card Reader & Antenna

1. Remove the Media and Battery.

   Turn the printer off, open the Media Cover, and remove any media from the printer. Remove the Battery from the Printer. Refer to the *Cameo User's Manual*.

2. Remove the Top Cover.

   Remove the 2 screws from the back of the printer and remove the 2 Phillipps screws from the front of the printer. Refer to "Top Cover - Cameo 2 & 3."

3. Loosen the CPU board.

   Remove the 4 screws from the CPU board. Refer to "CPU Board - Cameo 2."

4. If desired, you may unplug the Print Head Cable, Motor cable, Eye Sensor Cable, Ground Cable, and Head-Open Cable from the CPU Board.

5. Remove the Print Mechanism.

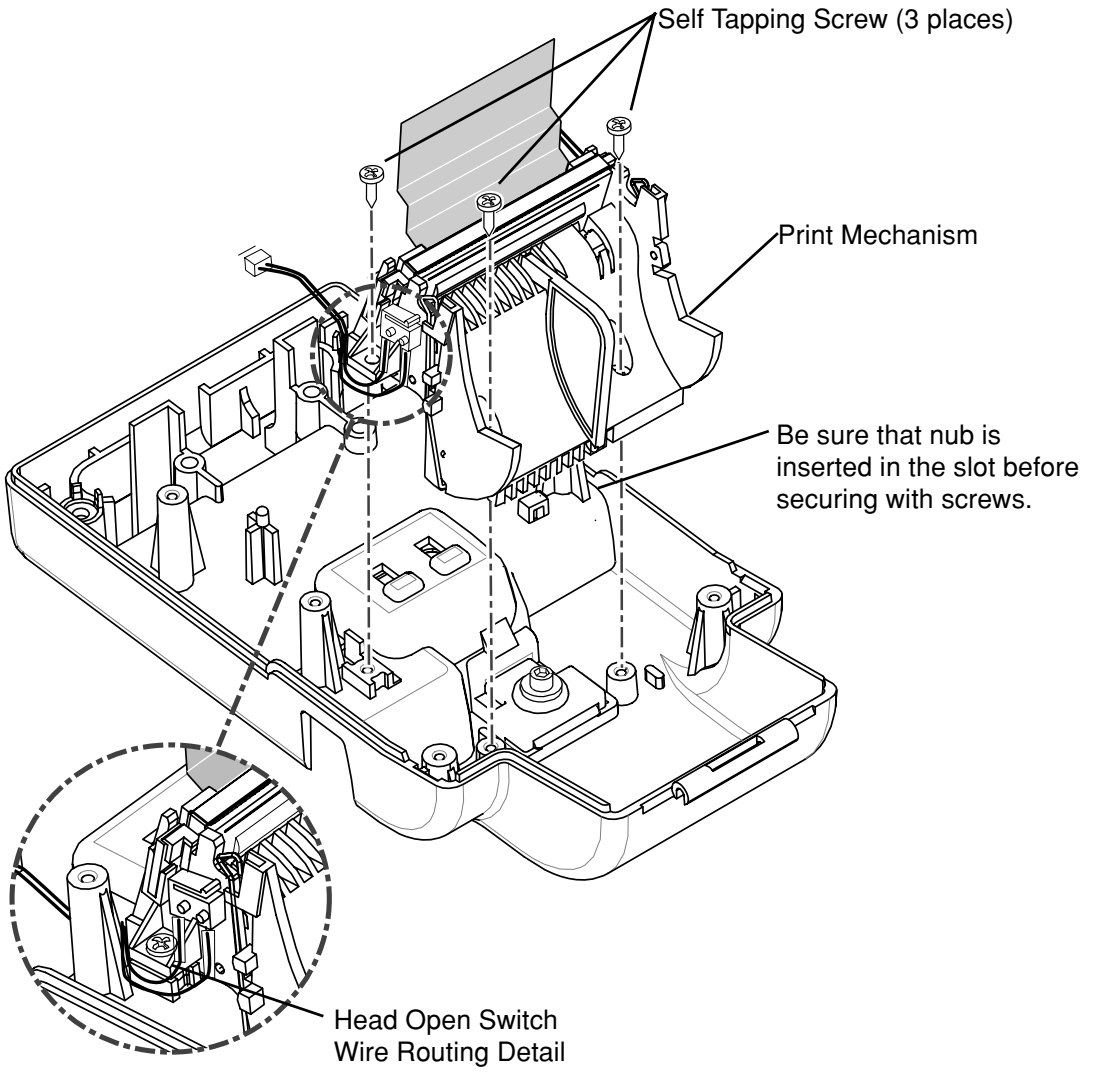
   Remove the 3 M3 x 6mm screws and remove the Print Mechanism.

6. Lift the CPU Board and the Print Mechanism away from the Lower Housing

Installing the Print Mechanism & CPU Board(See figure on next page)

1. Install the Print Mechanism:

   Insert the tab on the rear of the Print Mechanism into the slot on the Lower Housing as shown. Carefully dress the wires from the Head-Up switch between the mounting boss for the printer and the taller boss on the lower housing. Use care not to pinch any wires between the printer Assembly and the mounting boss. Secure the Print Mechanism with 3 Self-Tapping Screws.


Self Tapping Screw (3 places)
Print Mechanism
Be sure that nub is inserted in the slot before securing with screws.
Head Open Switch Wire Routing Detail

3. Plug the Print Head Cable, Motor cable, Eye Sensor Cable, Ground Cable, and Head-Open Cable into the CPU Board. Secure the CPU board using the 4 Phillipps screws. Refer to “CPU Board - Cameo 2.”
4. Install the Top Cover. Refer to “Top Cover - Cameo 2 & 3.”
5. Install the media and battery. Refer to the *Cameo User’s Manual*.

LOWER HOUSING, CAMEO 3- AN16794-015, AN_, AN_

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Be careful not to damage the actuator on the head open switch while working on the Cameo Chassis.

Caution: Use care when handling the Printer Assembly to avoid being cut on the serrated edge of the Tear Bar.

Tools

- #1 Phillips Head Screwdriver.
- #1 Slot Head Screwdriver.
- ESD strap and mat

Removing the Print Mechanism, CPU Board , Mag Card Reader, Smart Card and Antennas (See figure on next page)

1. Remove the Media.

   Turn the printer off, open the Media Cover, and remove any media from the printer. Refer to the *Cameo User's Manual*.

2. Remove the Top Cover.

   Remove the 2 screws from the back of the printer and remove the 2 Phillipps screws from the front of the printer. Refer to "Top Cover - Cameo 2 & 3."

3. Loosen the CPU board.

   Remove the 2 screws from the CPU board, push the locking tab, and lift the CPU Board from the retainers. Refer to "CPU Board - Cameo 3."

4. Unplug the Print Head Cable, Motor cable, Eye Sensor Cable, Ground Cable, and Head-Open Cable from the CPU Board.

5. Remove the Print Mechanism.

   Remove the 2 M3 x 6mm screws and remove the Print Mechanism.

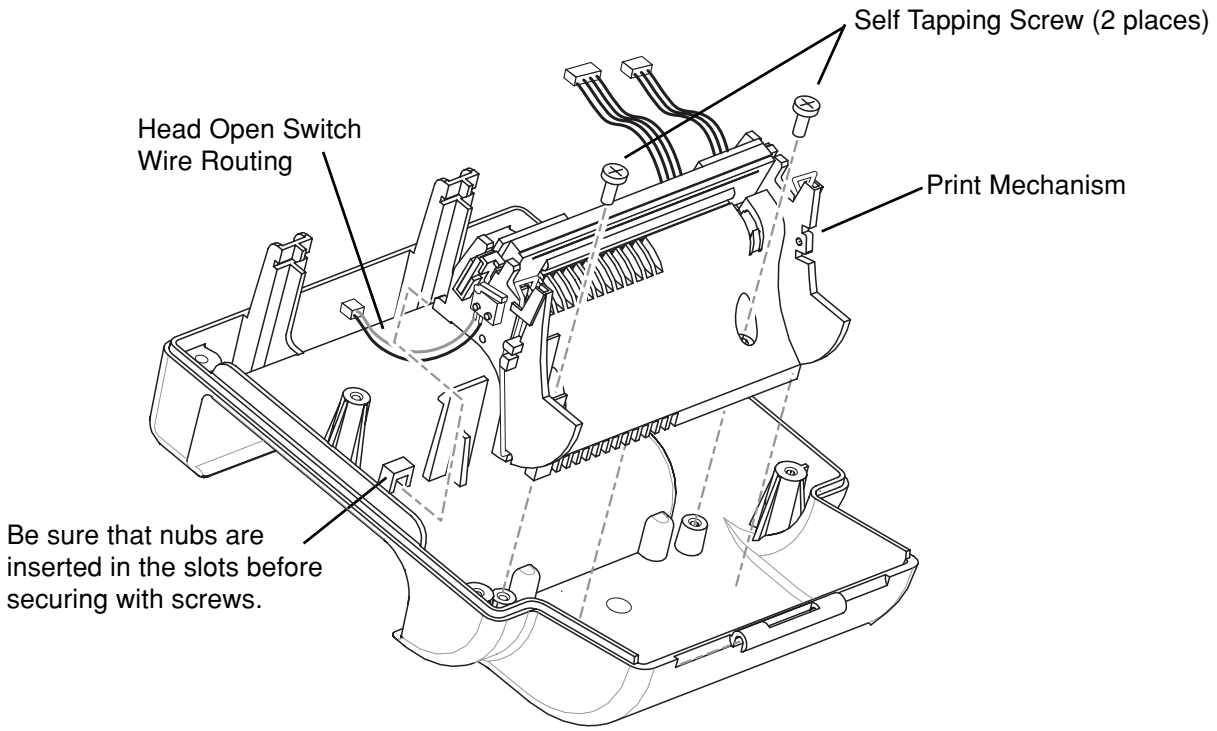
6. If desired, remove the Print Head Assembly from the Print Mechanism. Refer to "Print Head - Cameo 3."

Installing the Print Mechanism (See figure on next page)

This section describes how to install the Print Mechanism.

1. Install the Print Mechanism:

   Insert the 2 tabs on the rear of the Printer Mechanism into the slots on the Lower Chassis as shown. Carefully dress the wires from the Head-Open switch so that they are not stressed or crimped. Use care not to pinch any wires between the Print Mechanism and the mounting boss. Secure the Print Mechanism with 2 Self-Tapping Screws



2. Plug the Print Head Cable, Motor cable, Eye Sensor Cable, Ground Cable, and Head-Open Cable into the CPU Board. Snap the CPU board in place and secure it using the 2 Phillipps screws. Refer to “CPU Board - Cameo 3.”
3. Install the Top Cover. Refer to “Top Cover - Cameo 2 & 3.”
4. Install the media and battery. Refer to the *Cameo User’s Manual*.

PLATEN, CAMEO 2- AN16793-003 & CAMEO 3- AN16794-002

Tools:

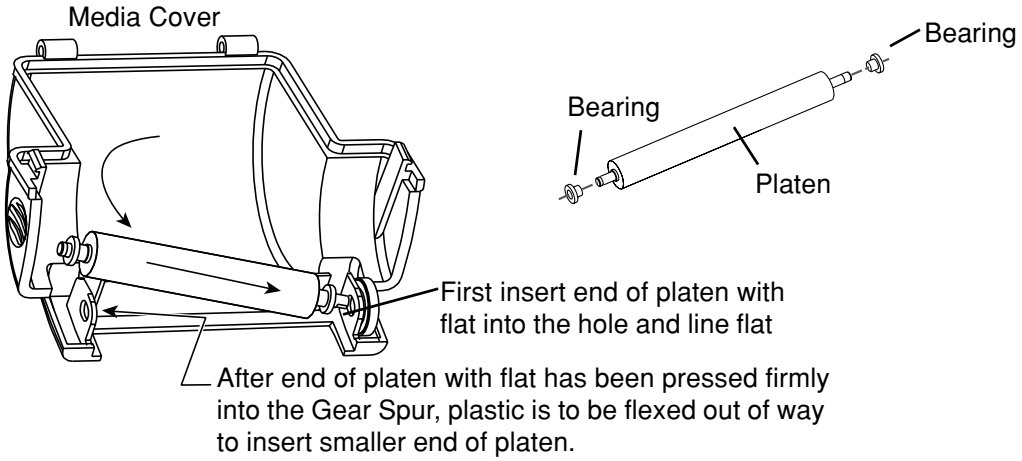
- #1 Slot Head Screwdriver.

Removing the Platen

1. Open the Media Cover and remove media.
2. Remove the Platen from the case opposite the gear.

   Carefully pry the plastic cover (the side opposite the gear) with a flat screwdriver and remove the platen.
3. Remove the Gear and the Platen.

   Carefully pry the gear off the Platen shaft and remove both the gear and the platen. (See diagram)


Media Cover
Bearing
Bearing
Platen
First insert end of platen with flat into the hole and line flat
After end of platen with flat has been pressed firmly into the Gear Spur, plastic is to be flexed out of way to insert smaller end of platen.

Installing the Platen

1. Install the Bearings.

   Slide theFlanged Bearings over each end of the Platen.
2. Install the Gear.

   Insert the platen shaft (the side with the flat) into the hole in the media cover, line up the gear (with part number and raised boss facing the platen), and press the gear onto the platen shaft.
3. Snap the Platen in place.

   Carefully pry the plasticcover (the side opposite the gear) and snap the platen shaft into the media cover.
4. Install media and close the cover.

   Refer to *Cameo User's Manual*.

PLATEN SPRING, CAMEO 2 & 3- AN16793-006

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Be careful not to damage the actuator on the head open switch while working on the Cameo Chassis.

Tools needed

- #1 Phillips Head Screwdriver.
- ESD strap and mat

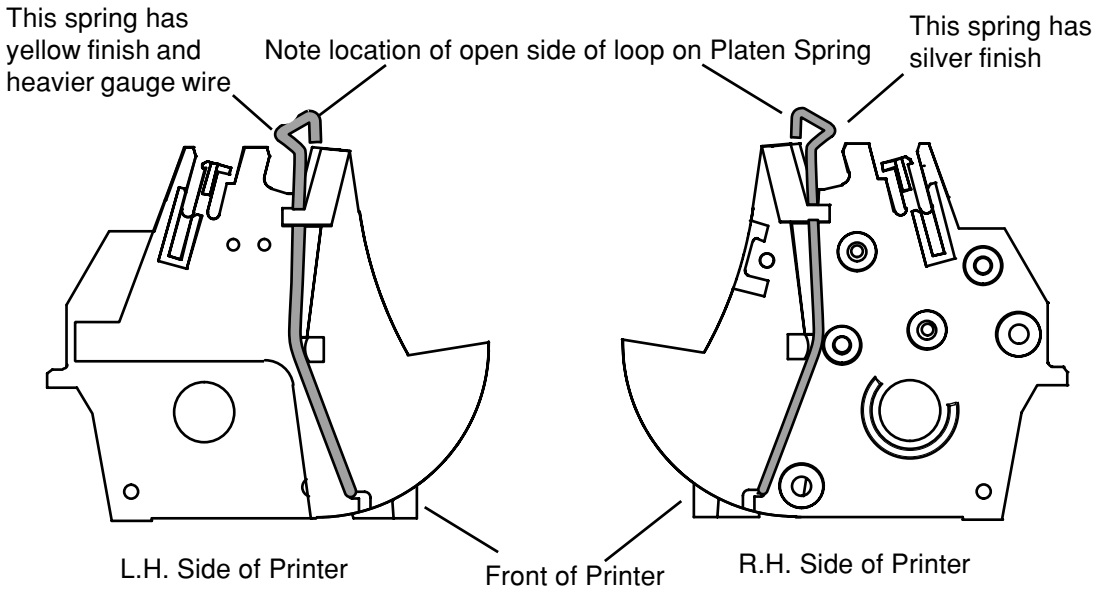
Installing the Platen Spring

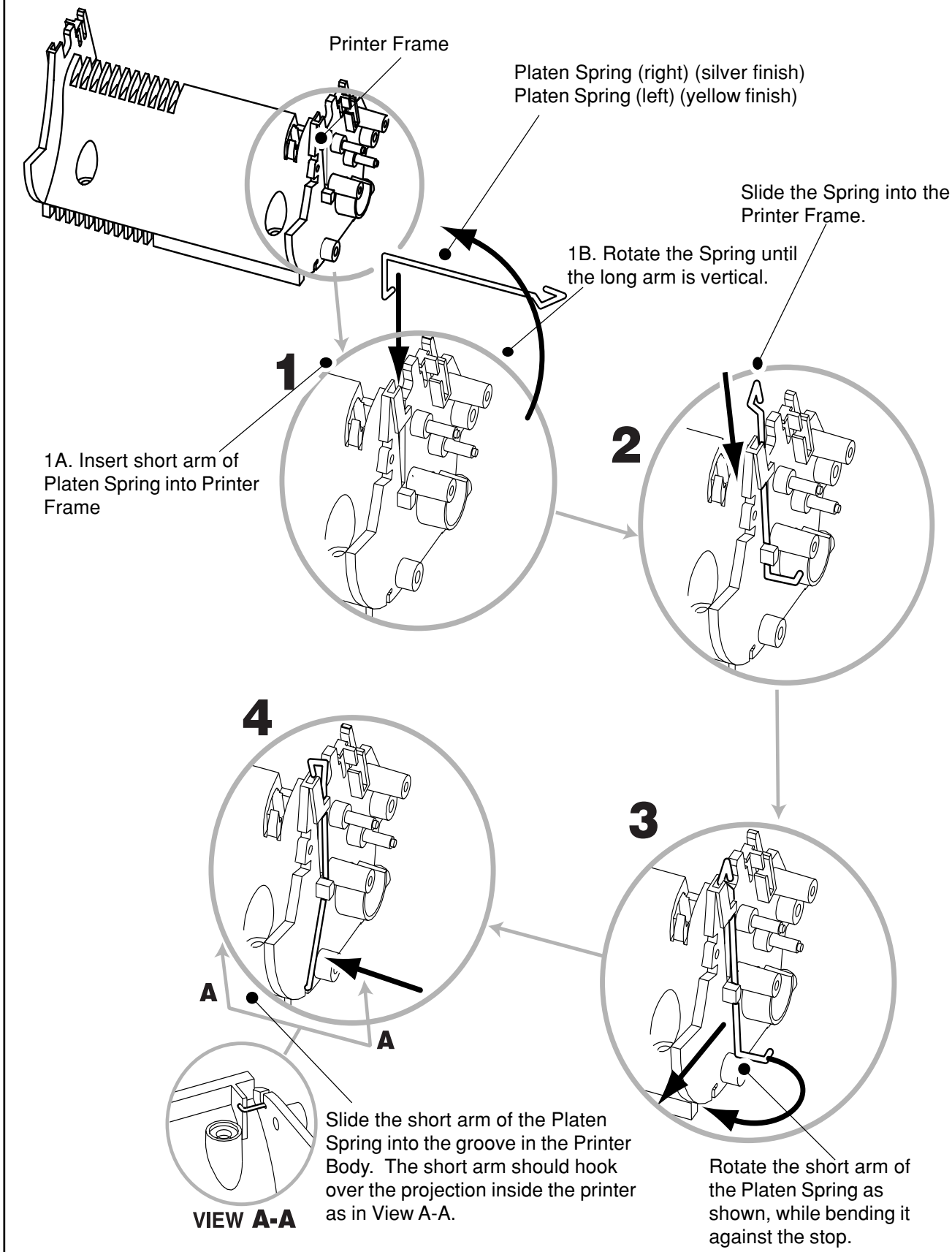
Install the left hand (yellow finish) and right hand (silver finish) Platen Springs. The Right Hand Platen Spring (silver finish).

Note: The open side of the loop on the Platen spring must face the front of the printer.

Note Refer to figures below and on the next page.

1. Open the Media Cover and remove the media.
2. Remove the Top Cover.
3. Loosen the Printer Assembly by removing the 3 screws (Step 1A).
4. Insert short arm of Platen Spring into Printer Frame (Step 1B).
5. Rotate the Spring until the long arm is vertical (Step 2).
6. Slide the Spring into the Printer Frame (Step 3).
7. Rotate the short arm of the Platen Spring as shown, while bending it against the stop.
8. Slide the short arm of the Platen Spring into the groove in the Printer Body. The short arm should hook over the projection inside the printer (Step 4, view A-A).

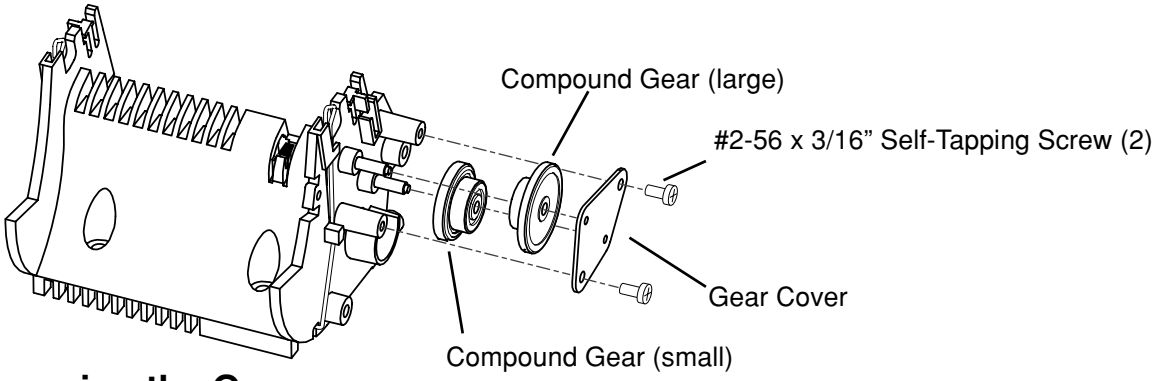

This spring has yellow finish and heavier gauge wire
Note location of open side of loop on Platen Spring
This spring has silver finish
L.H. Side of Printer
Front of Printer
R.H. Side of Printer


Printer Frame
Platen Spring (right) (silver finish)
Platen Spring (left) (yellow finish)
Slide the Spring into the Printer Frame.
1B. Rotate the Spring until the long arm is vertical.
1
1A. Insert short arm of Platen Spring into Printer Frame
2
3
4
A
A
VIEW A-A
Slide the short arm of the Platen Spring into the groove in the Printer Body. The short arm should hook over the projection inside the printer as in View A-A.
Rotate the short arm of the Platen Spring as shown, while bending it against the stop.

COMPOUND GEAR KIT, CAMEO 2 & 3- AN16793-004

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Be careful not to damage the actuator on the head open switch while working on the Cameo Chassis.



Removing the Gears

1. Remove the media and battery. Refer to the *Cameo User's Manual*.
2. Remove the Top Cover. Refer to "Top Cover - Cameo 2 & 3."
3. Loosen the CPU Board (4 screws in Cameo 2 or 2 screws and a clip in Cameo 3). Refer to either "CPU Board - Cameo 2" or "CPU Board - Cameo 3."
4. Loosen the Printer Assembly (3 screws in Cameo 2 or 2 screws in Cameo 3). Refer to either "Printer Assembly - Cameo 2" or "Printer Assembly - Cameo 3."
5. Remove the 2 socket head screws from the gear cover.
6. Pull the gears off from the gear shafts.

Installing the Gears

1. Install the Gears.

   1a. Orient the small Compound Gear as shown and slide it over the shaft. The larger diameter gear should mesh with the pinion on the Motor.

   1b. Orient the large Compound Gear as shown and slide it over its shaft so that it meshes with the small gear.

2. Install the Gear Cover

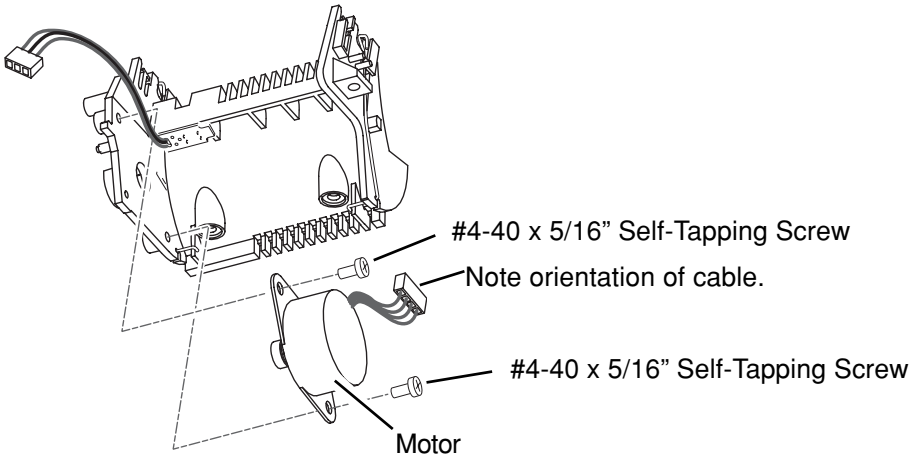
   Align the Gear Cover so that the two small holes fit over the two gear shafts and the two large holes align with the two larger bosses. Secure with (2) #2-56 x 3/16" Self-Tapping Screws.

3. Install the Printer Assembly Refer to either "Printer Assembly - Cameo 2" or "Printer Assembly - Cameo 3."
4. Secure the CPU Board. Refer to either "CPU Board - Cameo 2" or "CPU Board - Cameo 3."
5. Install the Top Cover. Refer to "Top Cover - Cameo 2 & 3."
6. Install the Media and Battery. Refer to the *Cameo User's Manual*.

MOTOR, CAMEO 2 AND 3- AN16793-008

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Be careful not to damage the actuator on the head open switch while working on the Cameo Chassis.



Removing the Motor

1. Remove the media and battery. Refer to the *Cameo User's Manual*.
2. Remove the Top Cover. Refer to "Top Cover - Cameo 2 & 3."
3. Loosen the CPU Board (4 screws in Cameo 2 or 2 screws and a clip in Cameo 3). Refer to either "CPU Board - Cameo 2" or "CPU Board - Cameo 3."
4. Loosen the Printer Assembly (3 screws in Cameo 2 or 2 screws in Cameo 3). Refer to either "Printer Assembly - Cameo 2" or "Printer Assembly - Cameo 3."
5. Remove the 2 screws from the motor.
6. Pull the motor out and unplug it from the CPU Board.

Installing the Motor

1. If you are installing a new motor in an old printer, replace the Print Head Mount with the new Mount supplied with the new Motor.
2. Install the Motor.
   - 2a. Install the motor as shown, positioning the motor so that the spline meshes with the gear, and install the 2 4-40 x 1/4 Self-Tapping Screws.
   - 2b. Dress the Eye Sensor Cable over the top of the motor.
   - 2c. Plug the Motor Cable into the CPU Board (J3 in Cameo 2 or J11 in Cameo 3).
3. Install the Printer Assembly Refer to either "Printer Assembly - Cameo 2" or "Printer Assembly - Cameo 3."
4. Secure the CPU Board. Refer to either "CPU Board - Cameo 2" or "CPU Board - Cameo 3."
5. Install the Top Cover. Refer to "Top Cover - Cameo 2 & 3."
6. Install the Media and Battery. Refer to the *Cameo User's Manual*.

BAR SENSOR ASSEMBLY, CAMEO 2 PLUS- AN16793-010

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Be careful not to damage the actuator on the head open switch while working on the Cameo Chassis.

Tools

- #1 Phillips Head Screwdriver
- 3/32" Hex Driver
- ESD strap and mat

The following procedures are valid in a Cameo 2 if PCC Digit 8 = B.

Removing the Bar Sensor (Refer to figure on next page)

1. Remove the media and battery. Refer to the *Cameo User's Manual*.
2. Remove the Top Cover. Refer to "Top Cover - Cameo 2 & 3."
3. Loosen the CPU Board (4 screws). Refer to "CPU Board - Cameo 2."
4. Loosen the Printer Assembly (3 screws). Refer to "Printer Assembly - Cameo 2."
5. Unscrew the Bar SensorAssembly from the Print Assembly.
6. Unplug the Bar Sensor Cable from the CPU Board.

Installing the Bar SensorAssembly (Refer to figure on next page)

1. Install the Bar Sensor Assembly.

   1a. Slide the Bar Sensor Assembly into the Sensor Mount, dressing the cable out the wide opening at the bottom of the Mount.

   1b. Mount the SensorAssembly on the side of the printer frame where shown and secure with (1) Self-Tapping Screw.

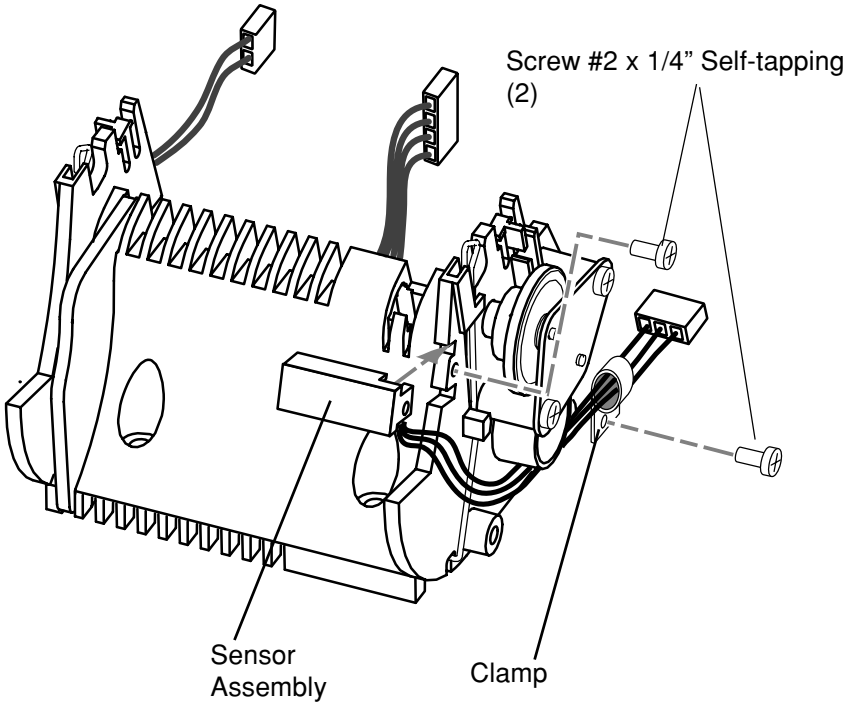
   Note: Insure that the wires from the Sensor cable are not pinched between the Sensor mount and the printer frame.

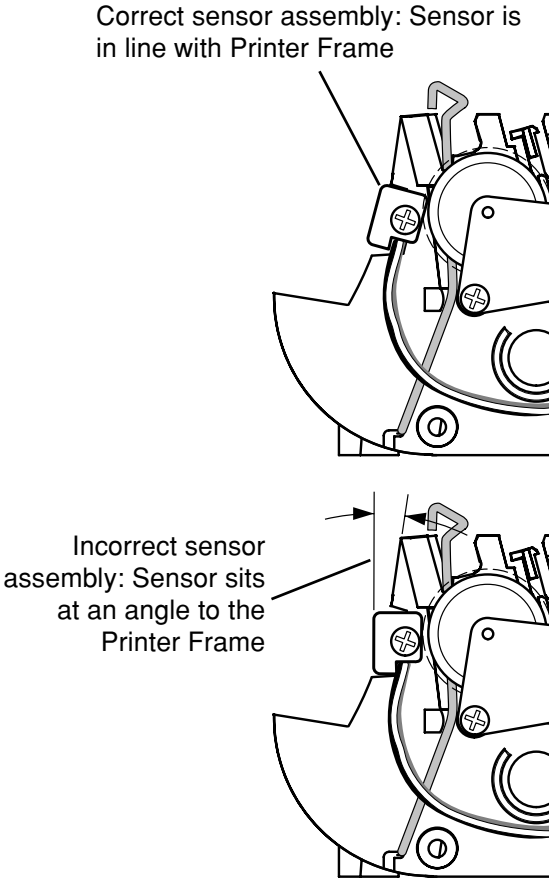
   The Sensor assembly must line up with the side of the Printer Frame as shown in Detail "A" for the sensor to work properly.

   1c. Dress the Bar Sensor cable along the side of the printer frame as shown, and secure in place using the Clamp and Self-Tapping Screw.

   1d. Plug the Bar Sensor Cable into J5 of the CPU Board.

2. Install the Printer Assembly
3. Secure the CPU Board. Refer to "CPU Board - Cameo 2."
4. Install the Top Cover. Refer to "Top Cover - Cameo 2 & 3."
5. Install the Media and Battery. Refer to the "Battery, Cameo 2 &3".





Detail "A" Sensor
Mounting Details

EYE SENSOR, CAMEO 2 & 3- AN16793-011

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Be careful not to damage the actuator on the head open switch while working on the Cameo Chassis.

Tools

- #1 Phillips Head Screwdriver
- 3/32" Hex Driver
- ESD strap and mat

Removing the Eye Sensor (Refer to figure on next page)

1. Remove the media and battery. Refer to the *Cameo User's Manual*.
2. Remove the Top Cover. Refer to "Top Cover - Cameo 2 & 3."
3. Loosen the CPU Board (4 screws in Cameo 2 or 2 screws and a clip in Cameo 3). Refer to either "CPU Board - Cameo 2" or "CPU Board - Cameo 3."
4. Loosen the Print Mechanism (3 screws in Cameo 2 or 2 screws in Cameo 3). Refer to either "Print Mechanism - Cameo 2" or "Printer Assembly - Cameo 3."
5. Remove the Motor. Refer to "Motor - Cameo 2 & 3."
6. Carefully pry the eye sensor from the Print Mechanism.
7. Unplug the Eye Sensor Cable from the CPU Board.

Installing the Eye Sensor (Refer to figure on next page)

1. Install the Eye Sensor.

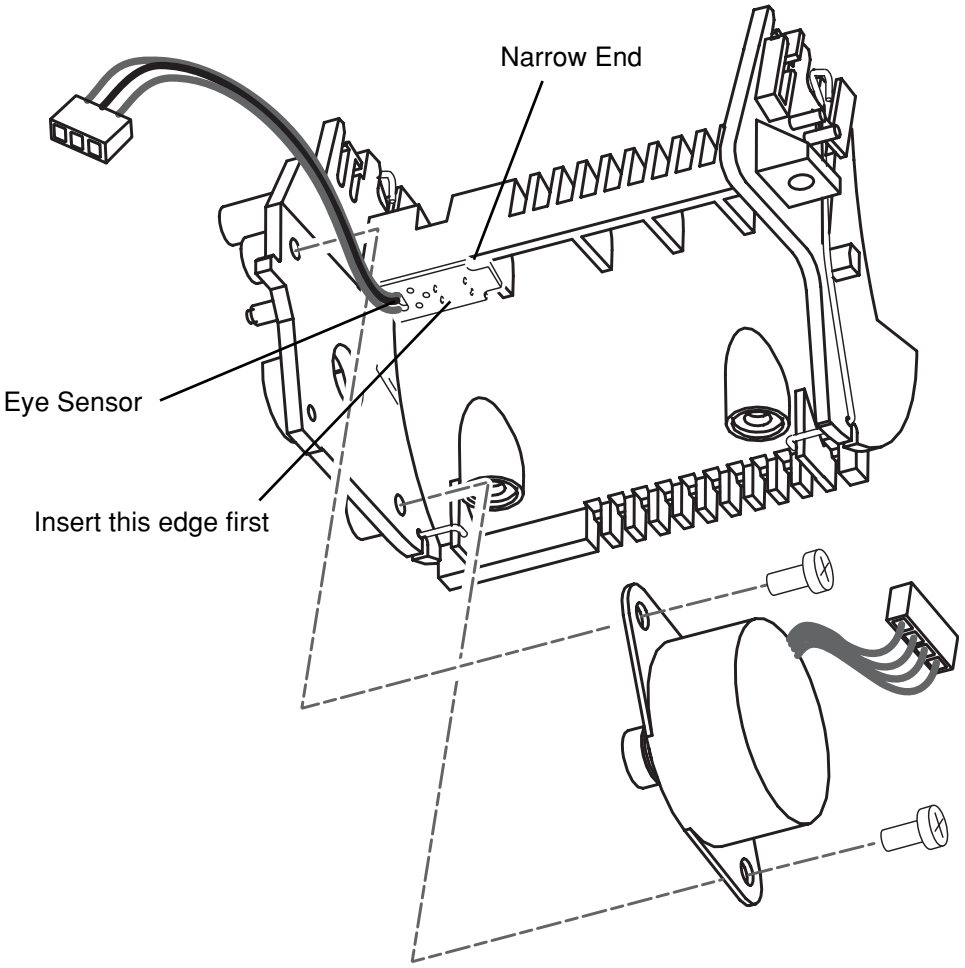
   1a. Position the eye sensor with the narrow end toward the middle of the Print Mechanism. Carefully press the indicted edge into place, followed by the opposite edge until it snaps into the locking tabs. The eye sensor must show through the cutout in the printer body.

Caution: Do not use a sharp or hard object to press the eye sensor in place.

   1b. Install the motor and then dress the Eye Sensor Cable over the top of the motor.

   1c. Plug the Eye Sensor Cable into the CPU Board (J5 in Cameo 2 and Cameo 3).

2. Install the Print Mechanism. Refer to either "Print Mechanism - Cameo 2" or "Printer Assembly - Cameo 3."
3. Secure the CPU Board. Refer to either "CPU Board - Cameo 2" or "CPU Board - Cameo 3."
4. Install the Top Cover. Refer to "Top Cover - Cameo 2 & 3."
5. Install the Media and Battery. Refer to the *Cameo User's Manual*.


Narrow End
Eye Sensor
Insert this edge first

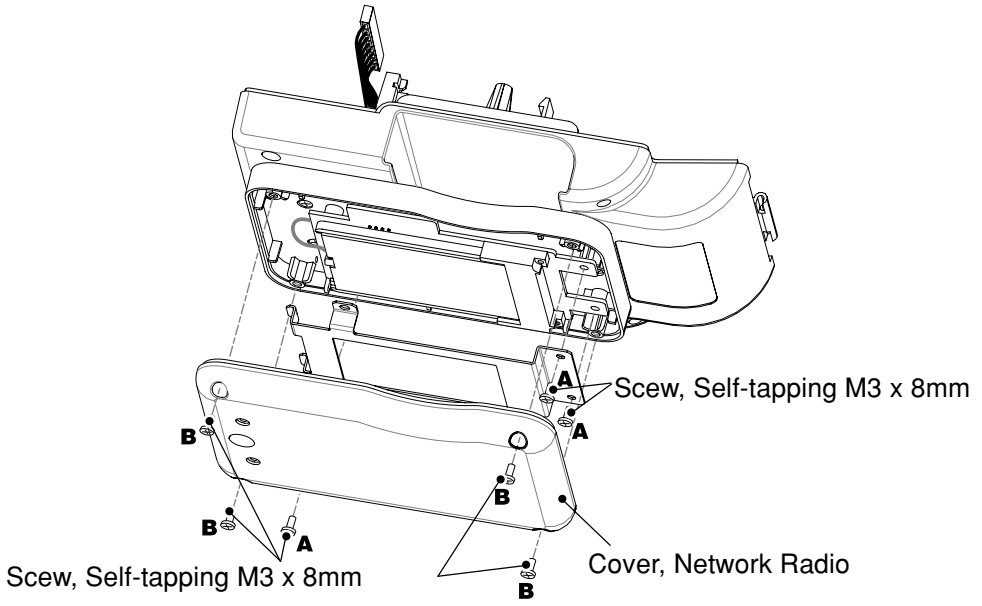
RADIO MODULE ASSEMBLY, CAMEO 3N- AN16794-026, -027, -028, &-029

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

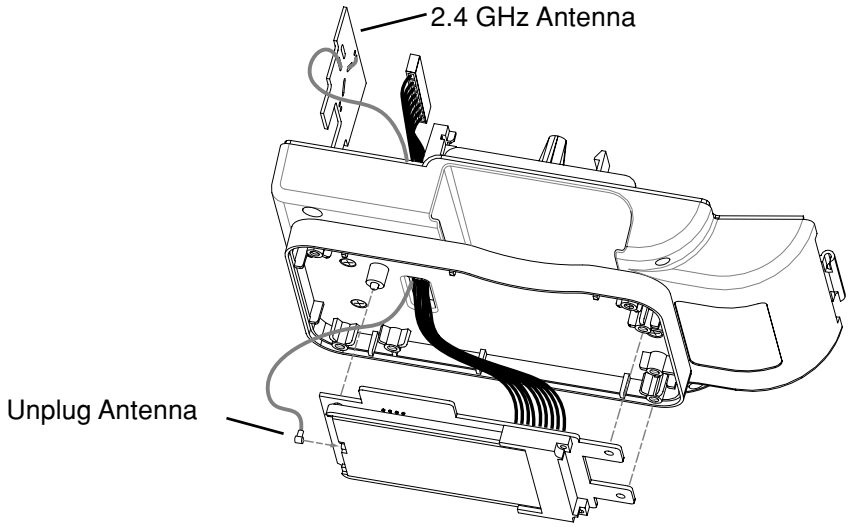
Equipment:
Phillips #1 screwdriver.

Removing the Long Range Radio

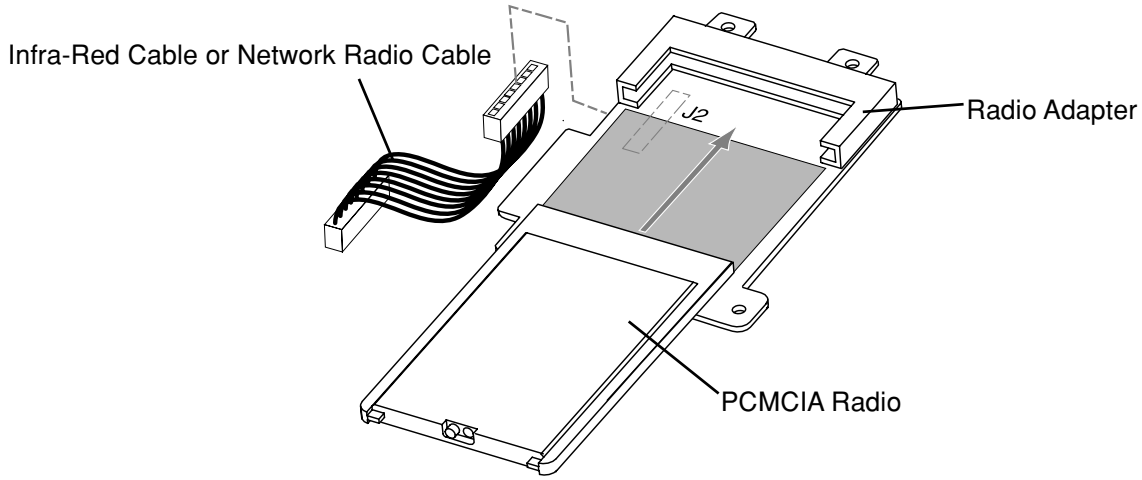
1. Remove the Network Radio Cover (4 Screws shown at “B”).
2. Remove the Radio Retainer and Adapter (3 Screws shown at “A”).



3. Locate the Radio Adapter PC Assembly onto the Network Radio Base.
4. Unplug the Antenna from the Radio Module, pull the antenna wire through the cutout on the Lower Cover, and remove the Antenna from the Lower Cover.

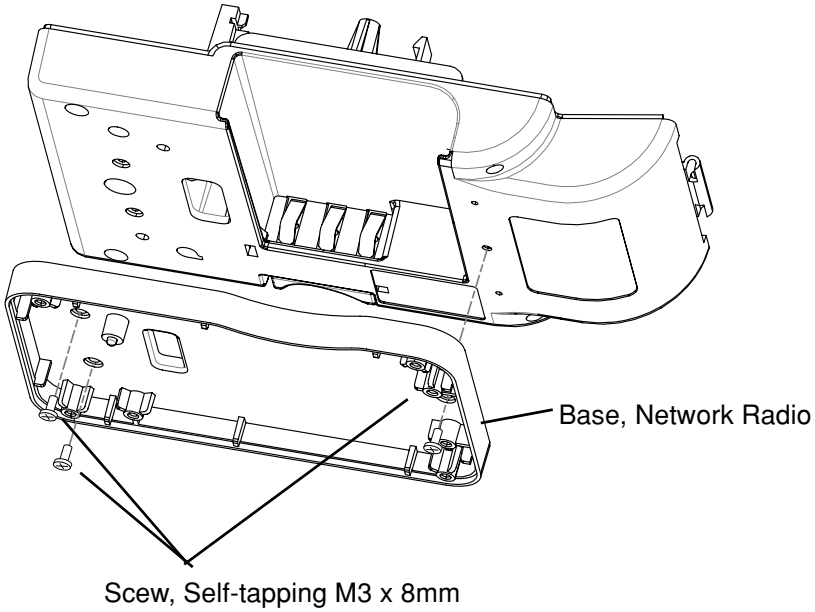


5. Unplug the Cable from the Radio Adapter.
6. Remove the Radio from the Adapter.



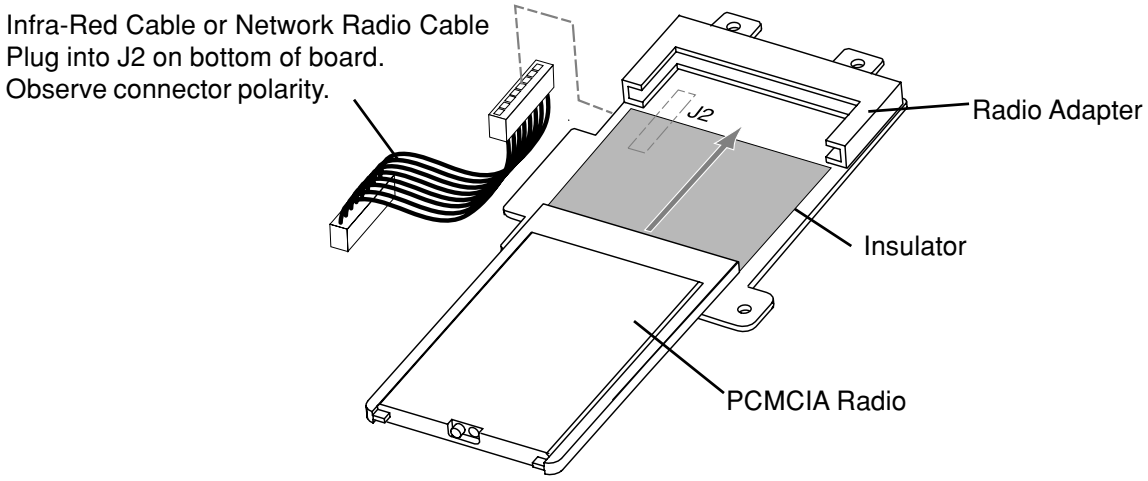
Installing the Long Range Radio

1. Secure the Base Network Radio to the Lower Case with (3) Screws.



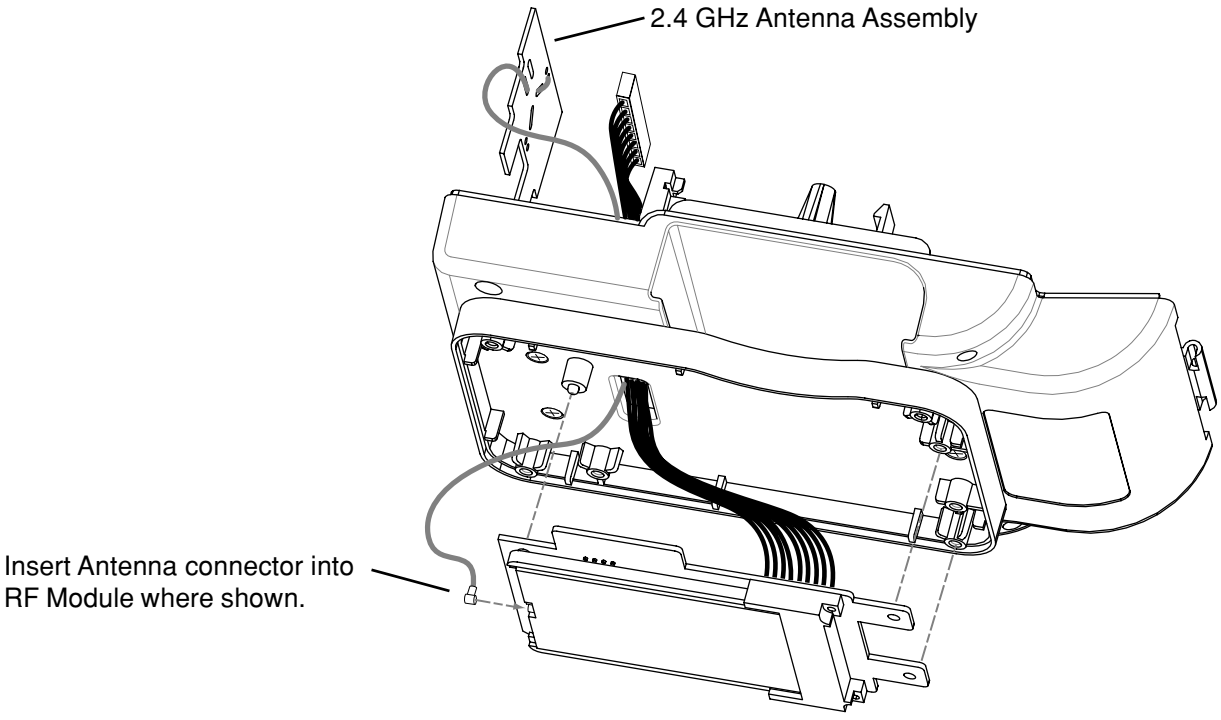
Prepare the Radio Adapter PC Assembly

2. Remove backing from adhesive side of Insulator and apply to Radio Adapter.
3. Insert the RF Module into the RF Adapter Board. Press the module all the way into the connector on the Adapter Board.
4. Plug the Cable Assembly into J2 on the bottom of the Radio Adapter Assembly. The connector is polarized and can only be inserted one way. Do not try to force it.

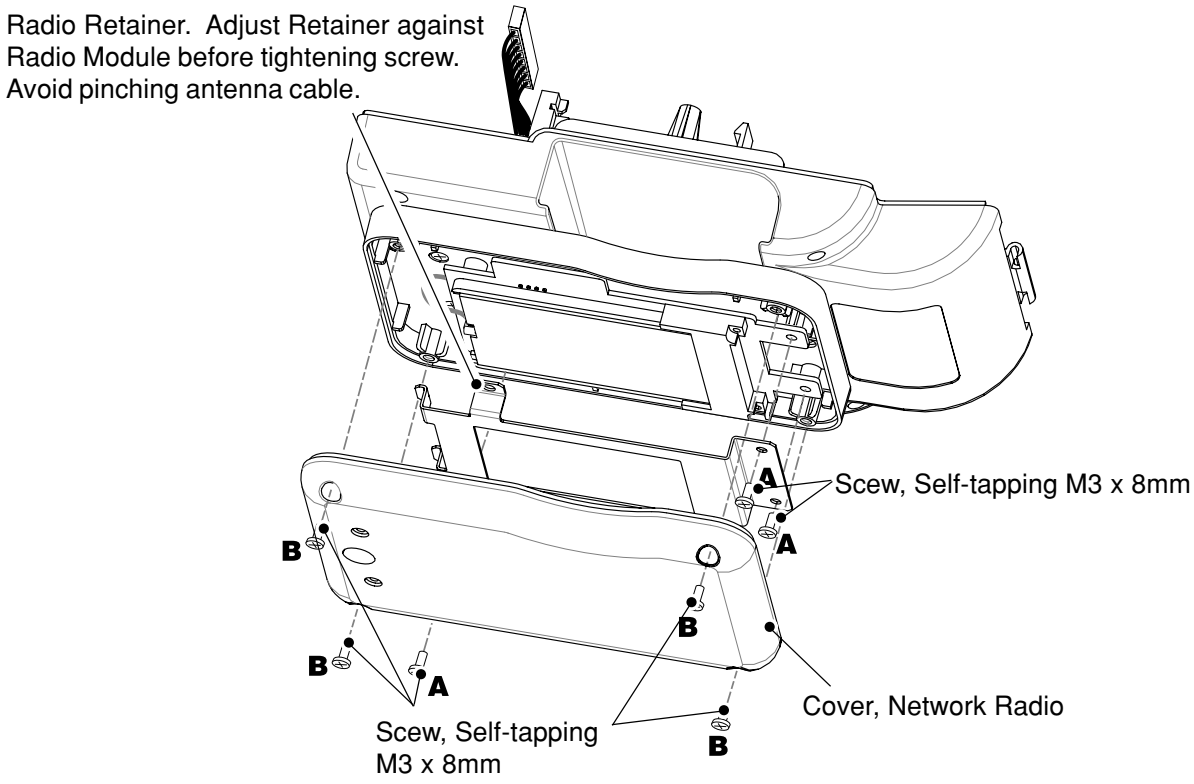


Install the Antenna

5. Install the RF Antenna in the Lower Cover, leading the antenna lead through the cutout in the bottom cover.
6. Plug the Antenna into the Radio Module. Dress the IR Cable through the cutout on the Lower Cover.
7. Locate the Radio Adapter PC Assembly onto the Network Radio Base.

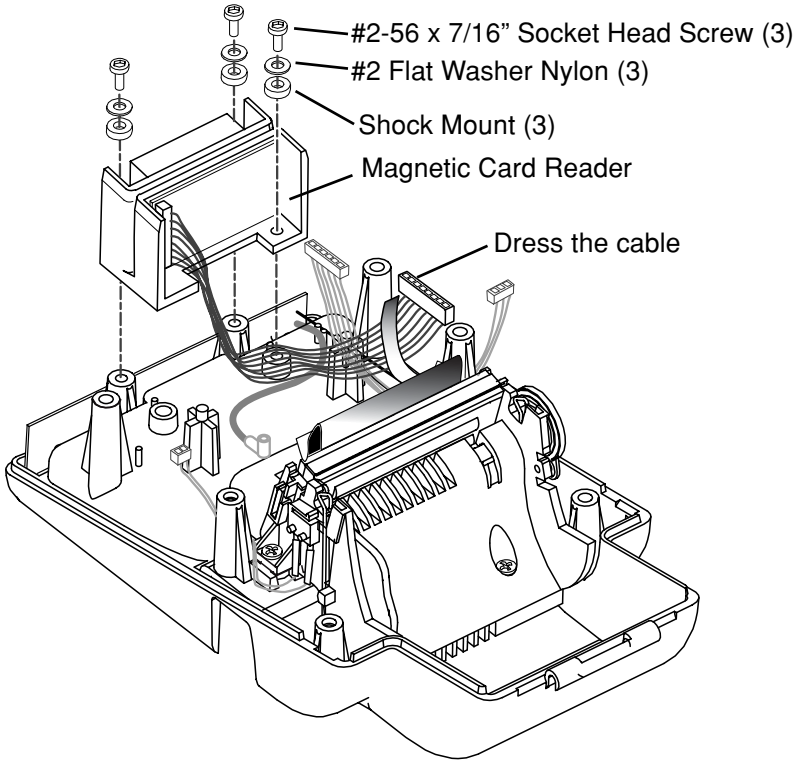


8. Secure both the Radio Retainer and the Adapter to the Base with (3) Screws shown at “A”. Adjust the Retainer against the radio module to prevent the module from moving. Insure that the Antenna Cable has not been pinched before tightening the Retainer screws.
9. Attach the Network Radio Cover to the Lower Cover Assembly with (4) Screws shown at “B”. Insure that the Antenna lead is not pinched between the Adapter Board and the Radio Cover before tightening screws.



MAGNETIC CARD READER, CAMEO 2 - BC15257-1

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.



Removing the Magnetic Card Reader (MCR)

This procedure is valid if PCC digit 12 = 1 or 3.

1. Remove the media and battery. Refer to the *Cameo User's Manual*.
2. Remove the Top Cover. Refer to "Top Cover - Cameo 2 & 3."
3. Loosen the CPU Board by removing the 4 screws.
4. Unplug the MCR from the CPU Board.
5. Remove the 3 screws from the MCR.

Installing the Magnetic Card Reader (MCR)

This procedure is valid if PCC digit 12 = 1 or 3.

1. Secure the MCR with (3) #2-56 x 7/16" Socket Head Screws, (3) #2 Flat Washers Nylon and (3) Shock Mounts.

   Note: Screws will bottom out into inserts, thus allowing card reader to float freely.

2. Dress the MCR Cable so that it is not pinched or strained.
3. Secure the CPU Board by installing the 4 M3 x 10 mm Self-Tapping Screws. Refer to "CPU Board - Cameo 2."
4. Install the Top Cover. Refer to "Top Cover - Cameo 2 & 3."
5. Install the Media and Battery. Refer to the *Cameo User's Manual*.

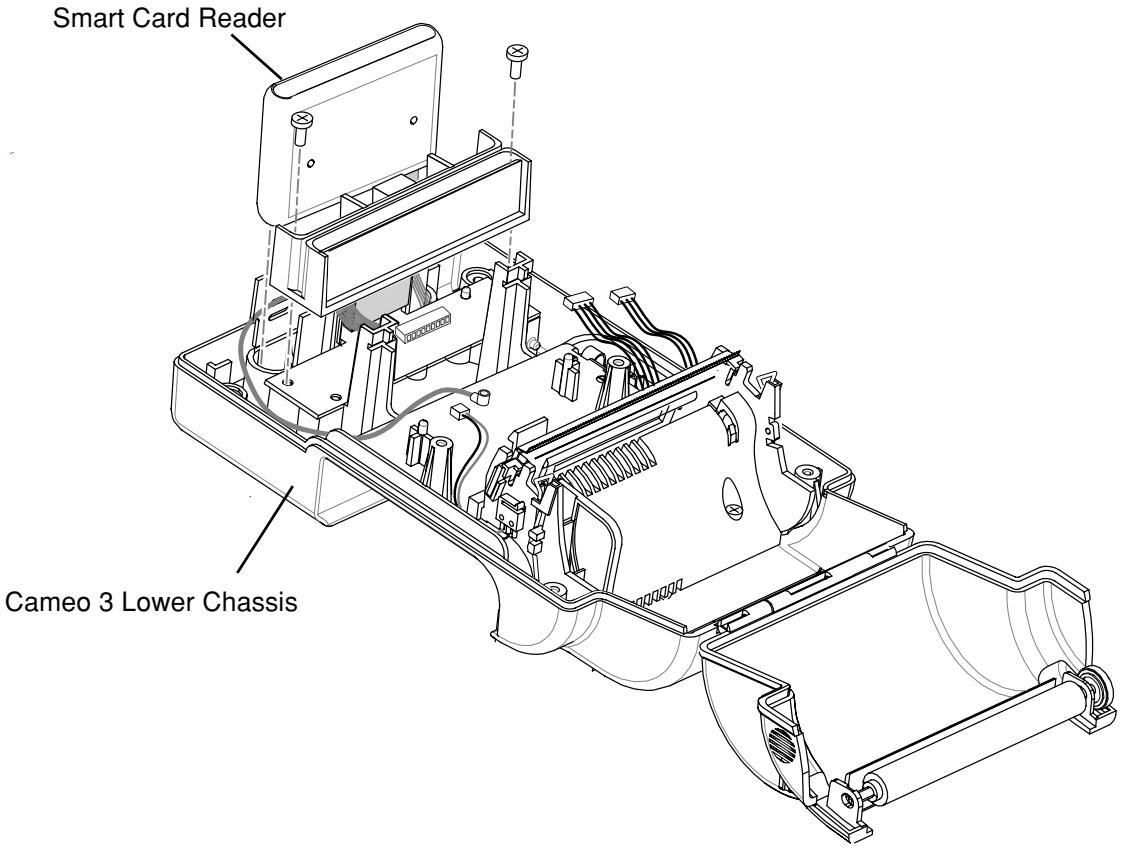
You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Follow these steps if PCC digit 3 = A, PCC digit 7 = 3 or 4 and PCC digit 12 = 1 thru 3:

Installing a Smart Card Reader

If PCC digit 12 = 2 or 3:

1. Loosen the CPU Board and plug the Smart Card connector into J12 of the CPU Board.
2. Route the cable underneath the CPU Board, over the battery latch, and around the Magnetic Card Reader.
3. Insert the Smart Card Reader into the oval retainer in the chassis, with the wire passing through the cutout in the oval retainer, until the two pins in the retainer tabs snap into the two mating recesses in the smart card reader.
4. Push the smart card wire into the lower chassis, around the top cover and out of the way of the magnetic card reader slot.



You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Removing the Magnetic Card Reader (MCR)

This procedure is valid if PCC digit 12 = 1 or 3.

1. Remove the media and battery. Refer to the *Cameo User's Manual*.
2. Remove the Top Cover. Refer to "Top Cover - Cameo 2 & 3."
3. Loosen the CPU Board by removing the 2 screws, pressing the latch, and lifting the board from its retainers.
4. Unplug the MCR cable from the CPU Board.
5. Remove the 2 screws that mount the MCR to the chassis. Remove the MCR.

Installing the Magnetic Card Reader (MCR)

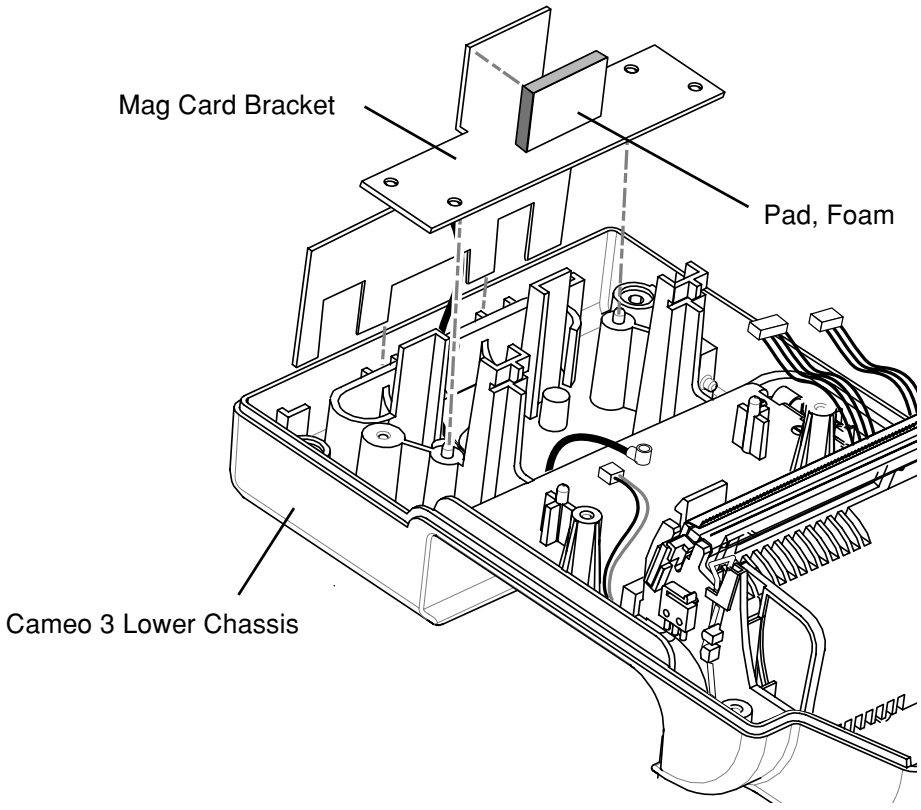
This procedure is valid if PCC digit 12 = 1 or 3.

1.Install Mag Card Bracket

NOTE: Perform this step only if the Mag Card Bracket is damaged, or you are replacing a Mag Card Reader in a Cameo 3 that does not have the Mag Card Bracket installed.

Secure the Pad, Foam to the Bracket, Mag Card as shown.

Install the Bracker and Foam Pad assembly in the Chassis as shown. The four holes in the Bracket will line up with the two pins and the two mounting holes in



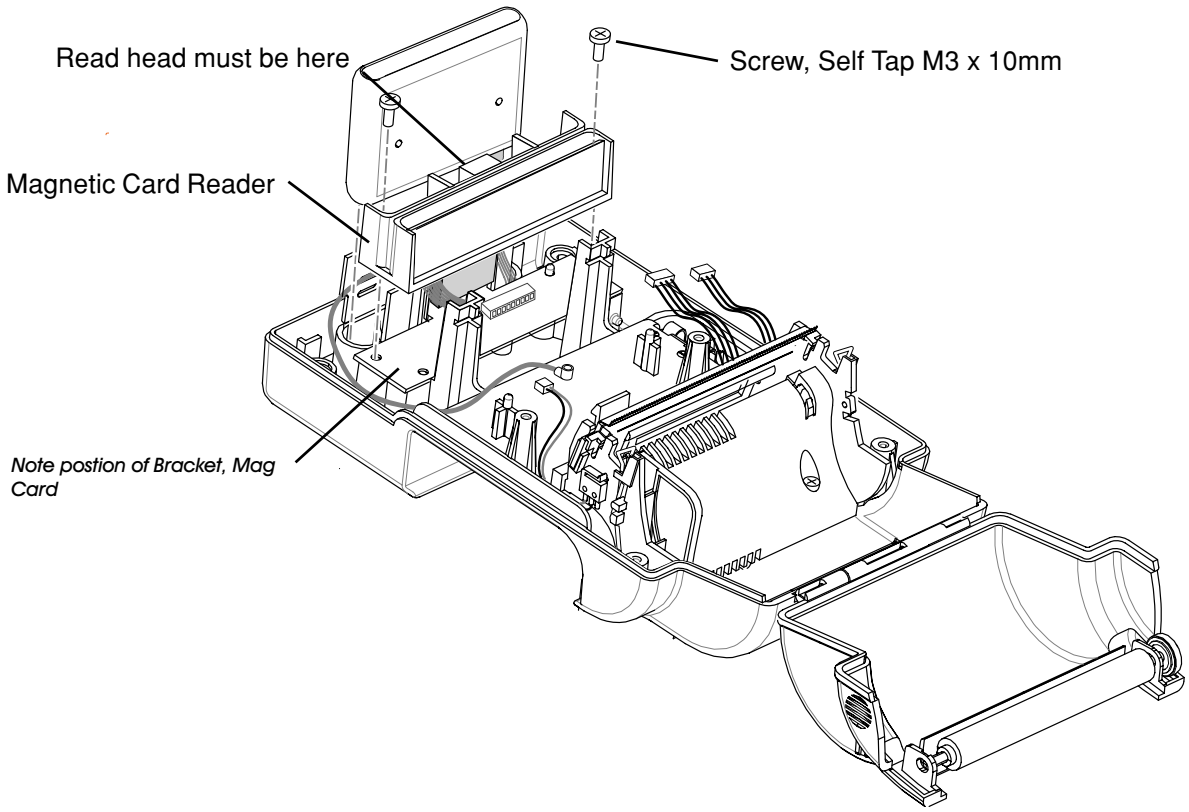
continued

the Chassis.

2. Secure the MCR with (2) M3 x 10mm Screws.

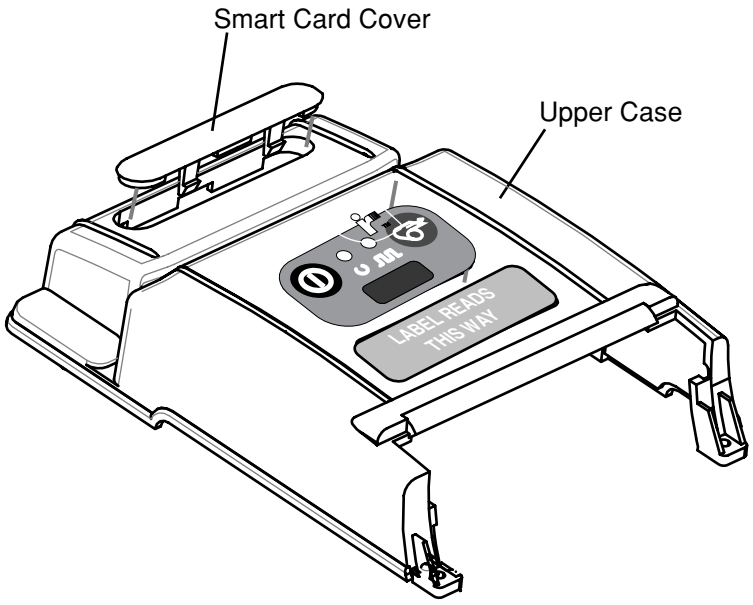
   Note: Screws will bottom out into inserts, thus allowing card reader to float freely.

3. Dress the MCR Cable so that it is not pinched or strained.
4. Secure the CPU Board by installing the 4 M3 x 10 mm Self-Tapping Screws. Refer to “CPU Board - Cameo 3.”
5. Install the Top Cover. Refer to “Top Cover - Cameo 2 & 3.”
6. Install the Media and Battery. Refer to the *Cameo User’s Manual*.



SMART CARD COVER, CAMEO 3 - AN16794-024

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.



If your printer does not have a Smart Card Reader (PCC digit 11 = 0 or 1), the Smart Card Reader cutout in the Top Cover must be filled with a Smart Card Cover.

Removing a Smart Card Cover

To remove the Smart Card Cover, remove the Top Cover and then pry the Smart Card Cover tabs and remove the Smart Card Cover from the Top Cover. Do not lose the Smart Card Cover.

Installing a Smart Card Cover

To install a Smart Card Cover, plug it into the vacant Smart Card cutout in the Top Cover.

Removing a Shoulder Strap and Belt Clip

To remove a shoulder strap, slide the Shoulder Strap Clip off from the Belt Clip.

To remove a belt clip, remove the 2 screws and remove the belt clip from the printer.

Attaching a Belt Clip

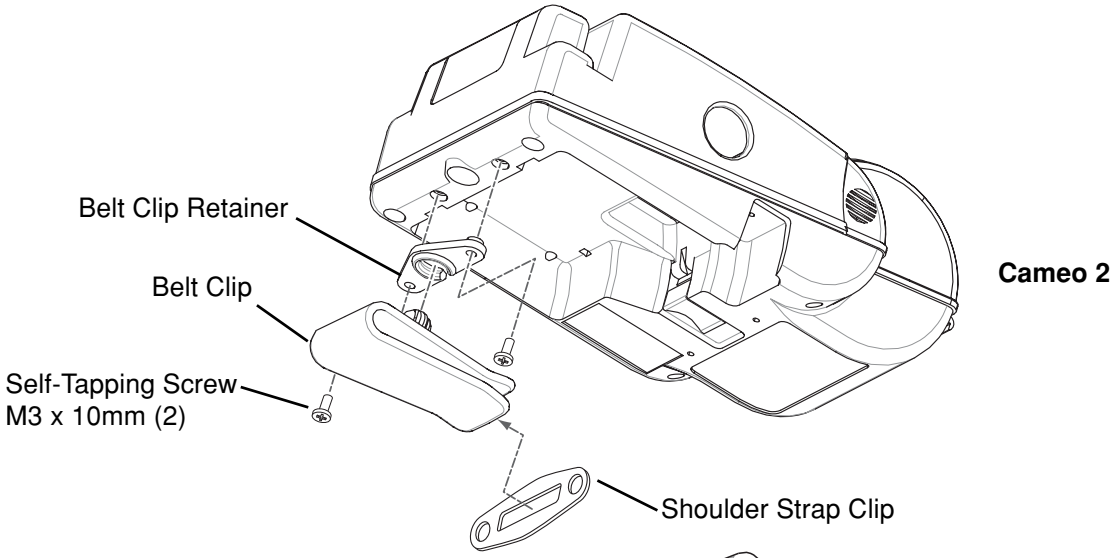
PCC digit 11 = 0 or 1:

Insert the ball joint of the Belt Clip through the cutout in the Belt Clip Retainer and into the Belt Clip Retainer. Secure the Belt Clip Retainer to the Cameo lower chassis with (2) M3 x 10mm Self-Tapping Screws. Make sure that the Belt Clip rotates freely.

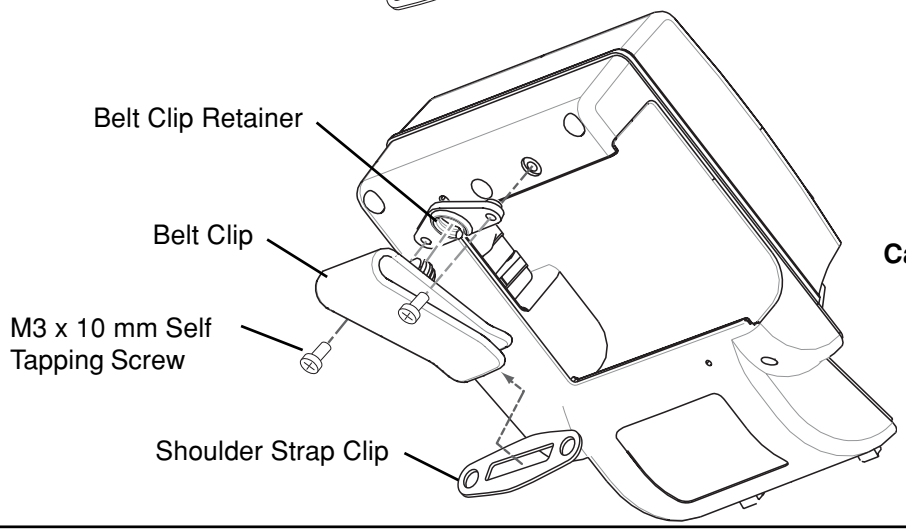
Attaching a Shoulder Strap

PCC digit 11 = 1:

After installing the Belt Clip as described above, slide the Shoulder Strap Clip onto the Belt Clip and attach the Shoulder Strap to the Shoulder Strap Clip.



Cameo 2



Cameo 3

BATTERY LATCH, CAMEO 2 & 2^{SC} - AN16793-012

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Tools:

- #1 Phillips Head Screwdriver.
- #1 Slot Head Screwdriver.
- 3/32 Hex Driver.
- ESD strap and mat

Removing the Battery Latch

To remove the Battery Latch: Refer to the figure on the next page.

1. Remove the Media.

   Turn the printer off, open the Media Cover as though loading media and remove any media from the printer. Refer to the *Cameo Portable Printers User's Manual*.

2. Remove the Top Cover.

   Remove the 2 Phillipps screws from the back of the printer and remove the 2 Phillipps screws from the front of the printer. Refer to "Top Cover - Cameo 2 & 3."

3. Loosen the CPU Board.

   Remove the 4 Phillipps screws from the PCB. Refer to "CPU Board - Cameo 3."

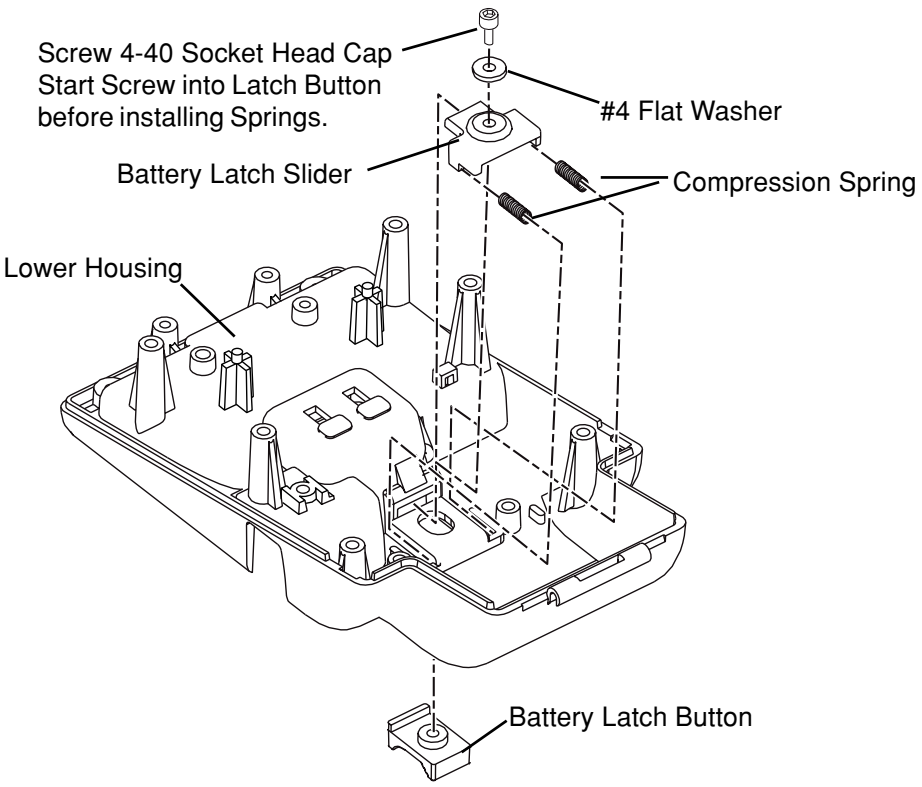
4. Loosen the Printer Assembly.

   Remove the 3 screws to be able to lift the Printer Assembly and access the Battery Latch. Refer to "Printer Assembly - Cameo 2 & 2^{SC}."

5. Unscrew the socket head cap screw and remove the latch.

   Note: Be careful not to lose the springs...they will fly!

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.



Installing the Battery Latch

To install the Battery Latch:

1. Install the Battery Latch Button

   Place the Battery Latch Button through the bottom of the Lower Housing. Place the Latch Slider in the Lower Housing as shown, lining up the mounting hole with the Latch Button. Assemble the Screw and Flat Washer together, and screw the Button and Slider together loosely.

2. Install the Springs

   Slide (2) Springs into the lower housing, capturing them between the Slider and the Lower Housing. Tighten the Screw into the Latch Button. Insure the latch assembly slides freely in the lower housing.

3. Install the Printer Assembly.

   Refer to “Printer Assembly - Cameo 2 & 2^{SC}.”

4. Install the CPU Board.

   Refer to “CPU Board - Cameo 3.”

5. Install the Top Cover.

   Refer to “Top Cover - Cameo 2 & 3.”

6. Install the media and battery.

   Refer to the *Cameo User’s Manual*.

BATTERY LATCH, CAMEO 3 & 3N- AN16794-010

You must use an ESD strap and work at a properly grounded workstation (antistatic mat or tray). All electronic components must be placed on an ESD protective tray. If stored, any electronic components must be placed in antistatic bags.

Tools

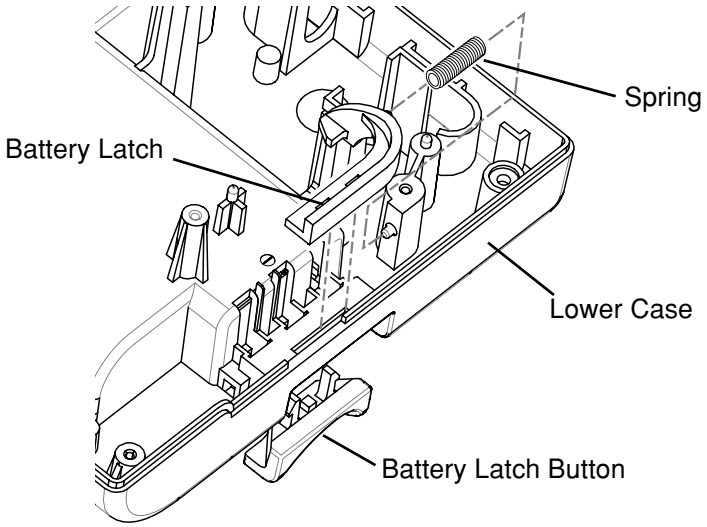
- #1 Phillips Head Screwdriver.
- ESD strap and mat

Removing the Battery Latch

1. Remove the Media. Refer to the *Cameo Portable Printers User's Manual*.
2. Remove the Battery.
3. Remove the Top Cover. Refer to "Top Cover - Cameo 2 & 3."
4. Remove the Spring.
5. Press both snaps on the Battery Latch Button toward each other and remove both the Battery Latch Button and the Battery Latch.

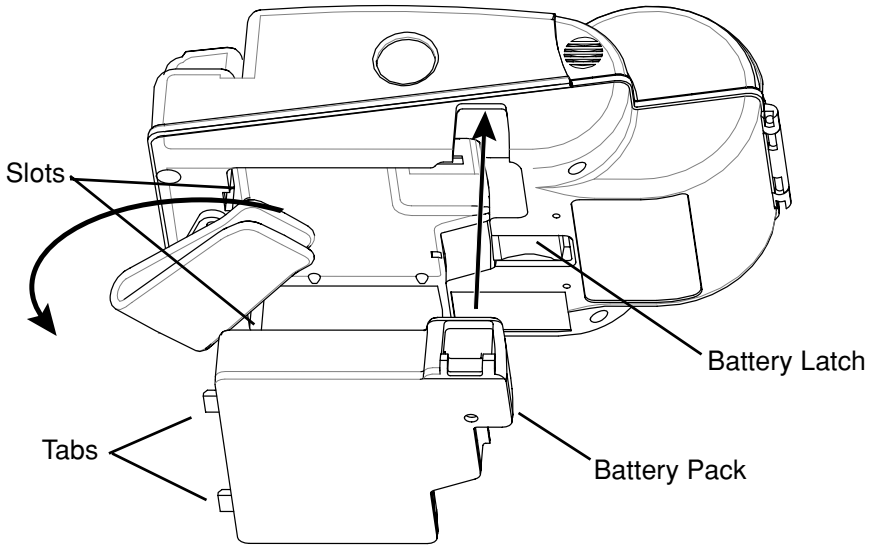
Installing the Battery Latch

1. Insert the Battery Latch Button into the Bottom Cover.
2. Line the Battery Latch over the snaps on the Battery Latch Button, and push to snap into place. The Latch and Button should slide freely on the Lower Case.
3. Install the spring. Compress the Spring so that one end fits over the protrusion on the Lower Case, and the other end fits over the matching protrusion on the Battery latch. Insure that the Button and Battery Latch still move back and forth freely, but with normal spring tension.



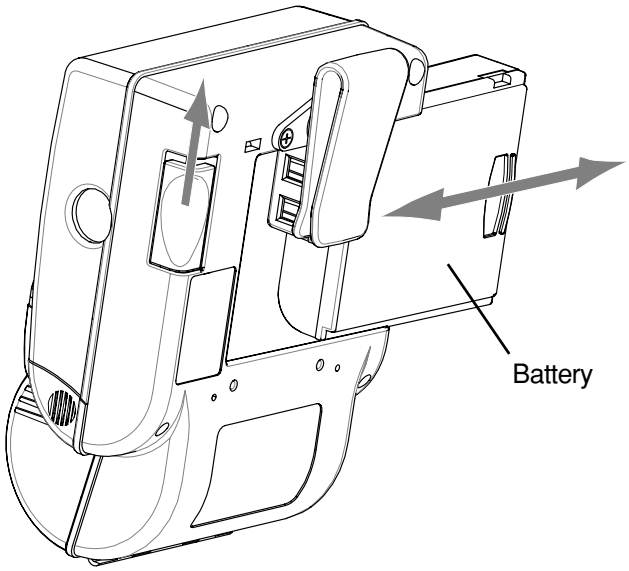
Installing a Battery in a Cameo 2 with a Belt Clip

Rotate the Belt Clip to clear the battery compartment. Insert the two battery tabs into the slots in the chassis beneath the belt clip. Press the battery into the chassis until it snaps and locks in place.



Installing a Battery in a Cameo 3, 3SC, or 3N

Slide the Battery into the printer as shown until it latches with a click.



ENVIRONMENTAL BOOT-, CAMEO 2 AN16793-015, -016, --017 & -018
ENVIORNMENTAL BOOT, CAMEO 3 - AN16794-016, -017, -018, -019, -020 & -021

Equipment

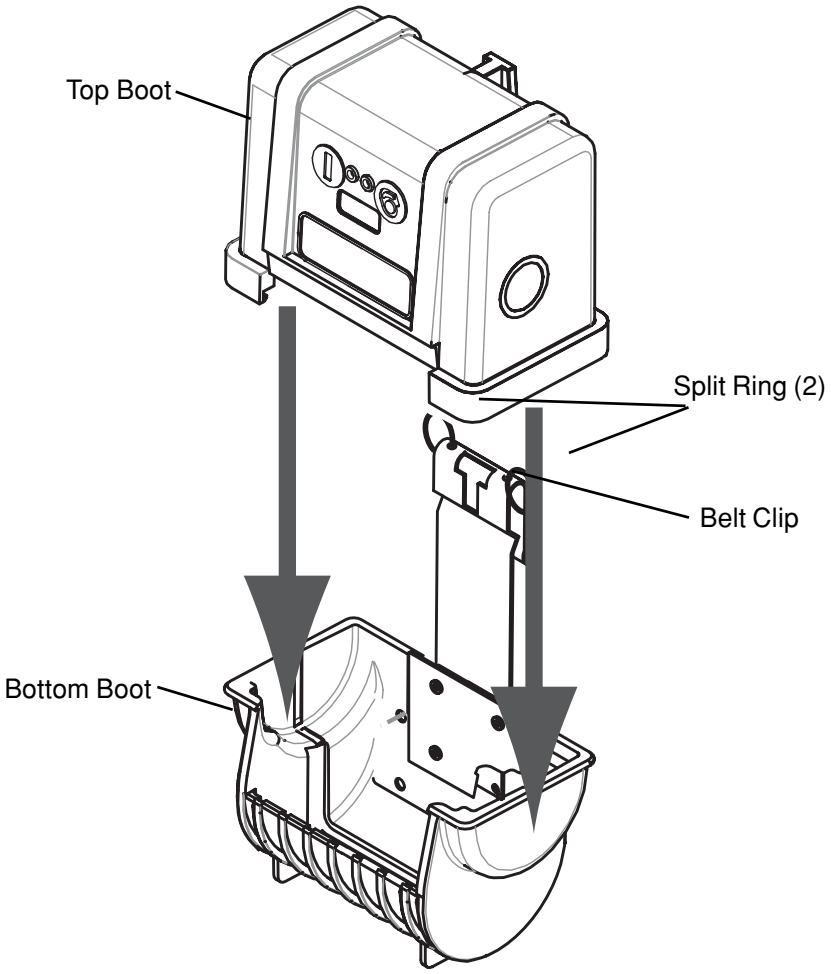
Small screwdriver

Removing the Boot

To remove the boot, simply pull the top and bottom boot until they unsnap and then remove each from the Cameo printer.

Installing the Boot

Slide the Cameo into the bottom boot (so that printed labels eject through cutout in boot). The boot fits snugly. Slide the top boot over the Cameo printer, line the “T” shaped projection with the mating slot on the belt clip, and snap the two covers together.



SECTION 3 • CAMEO PCCS AND PARTS

Using the Cameo Product Configuration Code

Each Cameo Printer has a 15-digit Product Configuration Code (PCC). When ordering replacement parts, use the PCC code to determine the features installed on your printer. Then use the exploded views to determine which kit to order.

Options from the Product Configuration Code (PCC) are cross referenced in the exploded view. (for example, the Bluetooth™ SRRF option would be referred to as "PCC digit 7 = B".)

Contact Customer Service if you are unsure of the correct part or assembly number. Refer to "Factory Repair & Parts Ordering Procedure" for further information on ordering parts.

Cameo Component Replacement Procedures

If you install a part on a Cameo different from the originally installed component, you may have to change the configuration status (PCC code) of the printer. The procedures in this section detail how to install these components and what steps to take if the unit's configuration is altered.

A change in the printer's configuration status requires an update to the configuration label. This step enables service and technical support personnel to accurately diagnose any problems which may occur with your printer.

If you ever have to send your printer back to the Factory Service Center (FSC), your printer will be updated as necessary to conform with the configuration label.

If the label does not properly identify the printer's current configuration, any changes you have made to the printer's configuration may be removed should it be returned to Zebra.

Note: If you contact Zebra's technical support staff, you will be asked for your unit's configuration number. If the configuration number you supply does not correspond to the printer's actual status, any technical support you receive may not be accurate.

FACTORY REPAIR AND PARTS ORDERING PROCEDURE

If you need to return a printer to the factory for repair or upgrade, a **Return Material Authorization (RMA)** must be issued from **Repair Services** prior to returning any assemblies, PC boards, printers, cables, etc. for repair or replacement. The name, address, contact and phone number of the company that equipment is to be returned to must also be provided. A problem description is also necessary.

When replacing items always refer to the Product Configuration Code to insure the correct part for your specific unit is being ordered. If you are unsure of the correct part, contact Zebra Customer Service with the unit serial number, and the Product Configuration Code to obtain the appropriate part number(s). The serial number label and Product Configuration Code label are either on the bottom or the back of the printer. Refer to Repair Manual Organization page for more information on label location. Portable printers with the optional protective boot will have to have the lower boot removed to gain access to the PCC label.

Equipment received without return authorization will not be accepted.

Repair Services contact Information

In the USA

Zebra Technologies Corporation,LLC
333 Corporate Woods Parkway
Vernon Hills, Illinois 60061-3109 USA

Phone: +1.847.913.2259
Fax: +1.847.913.8766
e-mail: repair@zebra.com
RMA requests: repair@zebra.com

In Europe

Zebra Technologies Europe, Limited
Zebra House
The Valley Centre, Gordon Road
High Wycombe
Buckinghamshire HP13 6EQ, United Kingdom
Telephone: +44 1494 768298

Fax: +44 1494 768210

e-mail: tseurope@zebra.com

RMA requests: ukrma@zebra.com

Ask for Customer Support

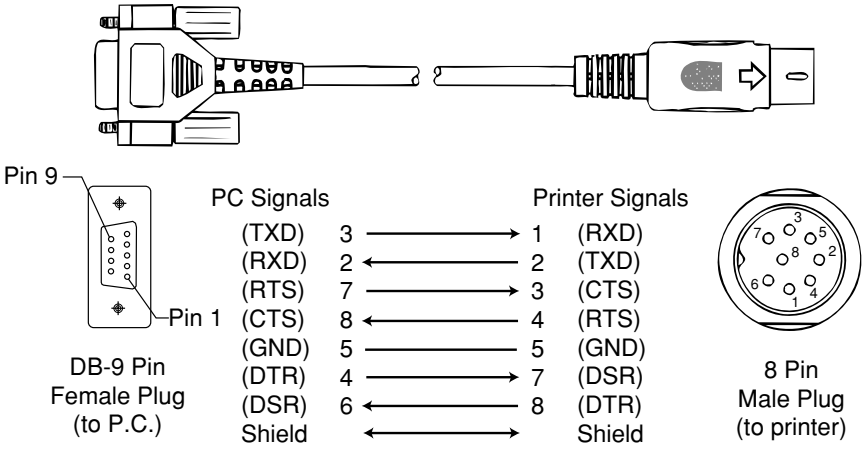
INTERFACE CABLES

Interface Cables for use with a Personal Computer

Part Number BL11757-000

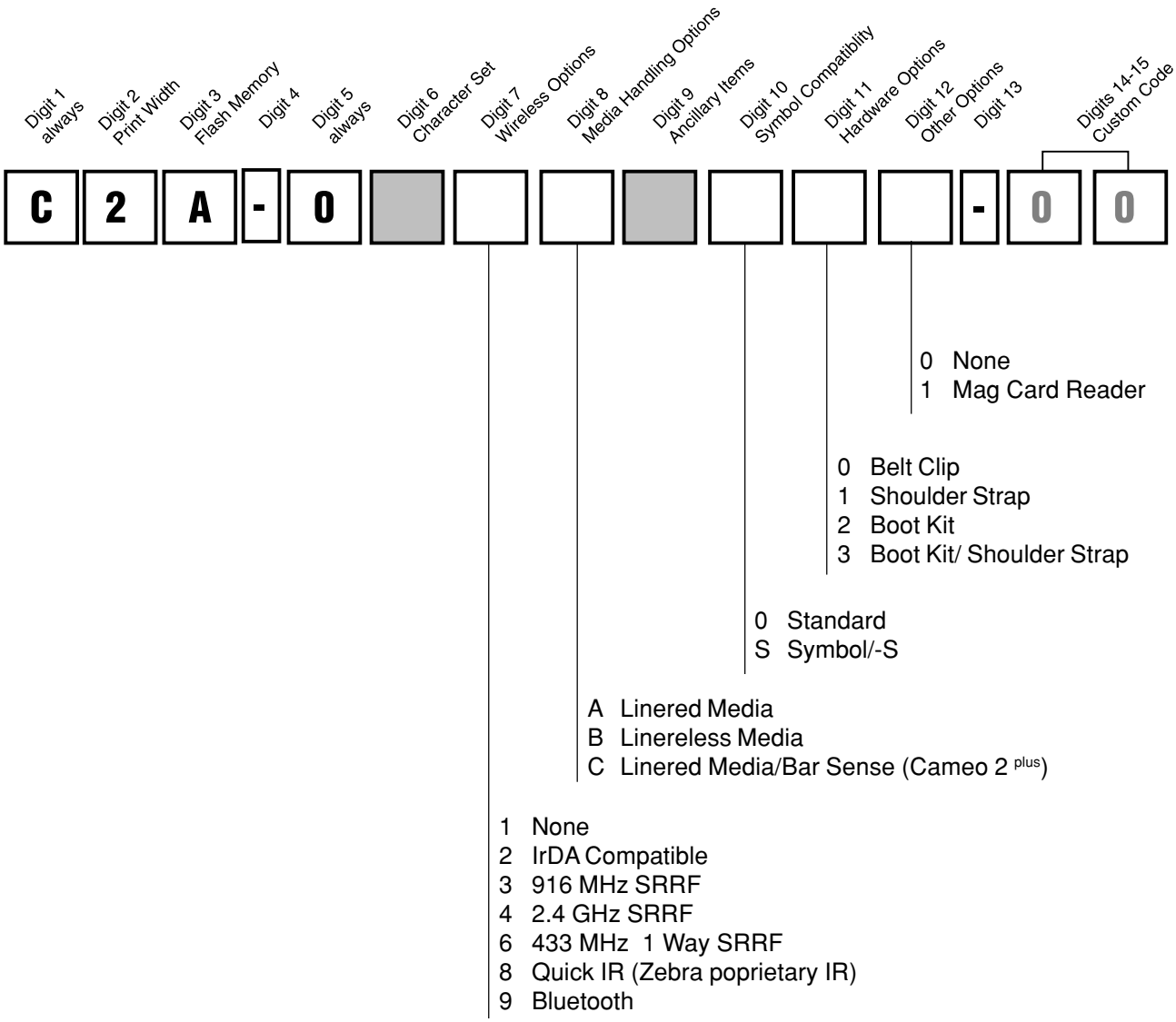
8-Pin DIN to 9-Pin DB PC Cable

This part is also available as a coiled cable under Part Number BL15063-1.



Terminal	Cable Part Number	Cord Lgth/Type	Terminal Connector	Printer Connector	Notes
COMPSEE					
Apex II	BL12093-3	8' Coiled	RJ45	8 Pin DIN	
NORAND					
RT1100/1700 Series	BL11537-1	8' /Coiled	6 Pin MinDIN	8 Pin DIN Over-molded	
RT1100/1700 Series	BL11537-2	12'/Coiled	6 Pin MiniDIN	8 Pin DIN Over-molded	
RT5900 Series	BL12803-1	8' /Coiled	15 Pin D-Sub	8 Pin DIN	
RT1100/1700 Series	BL12804-1	8' /Coiled	6 Pin MiniDIN	8 Pin DIN -Locking	
RT1100/1700 Series	BL13298-1	8' /Coiled	6 Pin MiniDIN	8 Pin DIN Over-molded	Auto ON/OFF
RT1100/1700 Series	BL13309-1	8' /Coiled	6 Pin Mini DIN	8Pin DIN	Auto ON/OFF
SYMBOL					
PDT3300 Series	BL11391-000	8' /Coiled	DB25 male	8 Pin DIN	
PDT4100 Series	BL11757-000	6' /Straight	9 Pin DB Fem.	8 Pin DIN	Must be used with Symbol RS232 Adapter - Symbol PN#25-12059-01
PDT3100/3500 /6100 Series	BL12093-1	8' /Coiled	RJ45	8 Pin DIN	a. Power On/Off (+5V) b. Used for the Percon Falcon
PDT3100 Series	BL12093-2	8' /Coiled	RJ45	8 Pin DIN	Power On/Off (DTR Line)
SPT1700 Series	BL15483-1	9' /Coiled	Cradle	8 Pin DIN	No Power On/Off (DTR Line)
SPT2700 Series	BL15482-1	9' /Coiled	Cradle	8 Pin DIN	Power On/Off (DTR Line)
LRT/LDT3800 Series	CC11371-3	6' /Coiled	PIM Optical	8 Pin DIN	"S" Printers Only
LRT/LDT3800 Series (2 Way)	CC11371-4	6' / Coiled	PIM Optical	8 Pin DIN	"S" Printers Only
SYMBOL (CONT.)					
LRT/LDT3800 & 6800 Series	CC11371-5	6' / Coiled	PIM Optical	8 Pin DIN	"S" Printers Only
TEKLOGIC					
7030 ILR	BL13285-2	Coiled	36 Pin IDC Fem	8 Pin DIN	
7025 ILR	BL13285-1	Coiled	15 Pin DB male	8 Pin DIN	
TELXON					
960	BL11122-1	8' /Coiled	RJ45	8 Pin DIN	
960SL Adapter for BL11122-1	CC13711-1	n/a	n/a	n/a	
960 (BL11122-1) & 960SL (CC13711-1)	CP74005	n/a	n/a	n/a	
960	BL12996-1	8' /Coiled	RJ45	8 Pin DIN-Locking	
860 & 912	CL11314-000	8' /Coiled	DB25	8 Pin DIN	

CAMEO 2 PRODUCT CONFIGURATOR CODE (PCC)



Note: The Product Configurator Code (PCC) is the link between the Manufacturing Order and specific options and specifications for each individual unit. Page numbers listed after specific options contain information regarding that option's installation . Options that are grayed out are handled either by software installation or by the PC assembly called out in the BOM for that particular printer's PCC .

CAMEO 2 WITH MCR OR SMART CARD

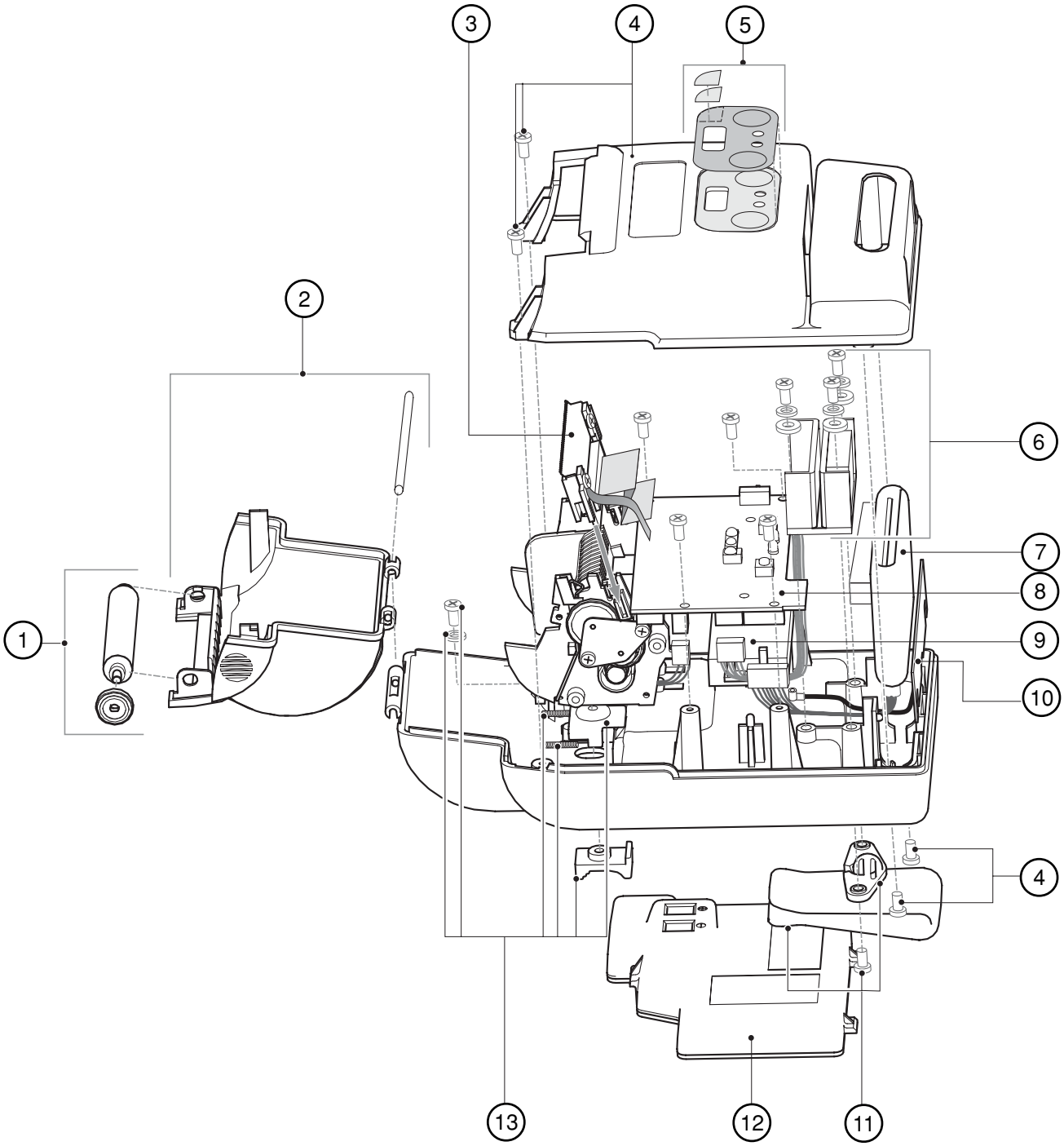
ITEM	PART NUMBER	DESCRIPTION
1	**AN16793-003**	**PLATEN KIT**
	BA15147-1	*PLATEN (PCC DIGIT 8 = A OR B)*
	TB-LN5228	*FLANGE BEARING (2)*
	BA13316-1	*SPUR GEAR*
	AN16793-002	**LINERLESS PLATEN KIT**
	BA13294-1	*LINERLESS PLATEN (PCC DIGIT 8 = C)*
	BA13316-1	*SPUR GEAR*
	TB-LN5228	*FLANGE BEARING (2)*
2	**AN16793-005**	**MEDIA COVER KIT**
	BA14033-1	*HINGE PIN*
	DA14009-1	*MEDIA COVER*
3	**CC14036-1**	**PRINT HEAD ASSEMBLY**
4	**AN16793-021**	**UPPER HOUSING KIT, W/ MAG CARD READER**
	DA14008-1	*UPPER HOUSING (PCC DIGIT 12 = 1)*
	AA14024-1	*KEYPAD*
	AA15179-1	*IR LABEL (PCC DIGIT 7 = 2)*
	REF. PCC	*PRODUCT ID LABEL*
	AA15103-1	*CARD SWIPE LABEL (PCC DIGIT 12 = 1)*
	TH-PTA023010-1	*SELF TAPPING SCREW M3 X 10MM (PCC DIGIT 11 = 0 OR 1) (4)*
5	**AN16793-001**	**KEYPAD KIT CAMEO 2/3**
	AA14024-1	*KEYPAD*
	AA15179-1	*IR LABEL (PCC DIGIT 7 = 2)*
	AA16298-1	*BLUE TOOTH LABEL*
6	**BC15157-1**	**MAGNETIC CARD READER KIT (PCC DIGIT 12 = 1 OR 3)**
7	**BB15426-1**	**MOD. SMART CARD READER CAMEO 2/3 (PCC DIGIT 12 = 2 OR 3)**
8	**AN16793-014**	**CPU W/MCR, SRRF, SMART CARD KIT**
	CQ15387-145	*CPU ASSEMBLY W/ MCR, IRDA, SMART CARD*
	TH-PTA0230088-1	*SCREW, SELF-TAPPING (QTY. 4)*
9	**AN16793-032**	**KIT, REPAIR CM2/3 BLUE TOOTH**
	CC16735-1	*BLUETOOTH MODULE*
	AA17032-1	*INSTRUCTION SHEET BLUETOOTH REGULATORY*
	AB17031-1	*LABEL, MOD, BLUETOOTH REGULATORY*
	AA17023-1	*LABEL, BLUETOOTH JAPAN*
	AN16793-026	**900MHZ ASH SRRF W/SHIELDING**
	CC15431-1	*916MHZ SRRF ASSY.*
	AN16824-013	**2.4GHZ MODULAR SHORT RANGE RADIO**
	CC15380-1V	*2.4 GHZ SRRF RADIO ASSY.*
	BA13913-1	*RADIO INSULATOR*
	TH-PE0403	*SCREW, SELF-TAP*
10	**AN16793-019**	**2.4GHZ BLUETOOTH ANTENNA KIT**
	CQ15731-1	*2.4 GHZ SRRF ANTENNA*
	AN16730-031	**916 MHZ SRRF ANTENNA KIT (PCC DIGIT 7 = 3)**
	CQ15730-1	*916MHZ SRRF ANTENNA*

Note: Bold = Can be ordered. *Italic = Cannot be ordered alone; part of kit listed in* ***Bold****.*

ITEM	PART NUMBER	DESCRIPTION
11	**AN16794-001**	**CM3 SHOULDER STRAP/BELT CLIP KIT**
	BT11132-1	*SHOULDER STRAP (PCC DIGIT 11 = 1 OR 3)*
	CA15383-1	*BELT CLIP (PCC DIGIT 11 = 0 OR 1)*
	CA15580-1	*BELT CLIP RETAINER (PCC DIGIT 11 = 0 OR 1)*
	CA15582-1	*SHOULDER STRAP CLIP (PCC DIGIT 11 = 1)*
	TH-PTA023010-1	*SELF TAPPING SCREW M3 X 8MM*
	CA15384-1	*RETAINER , BELT CLIP*
	TH-WB0403	*WASHER, LOCK #4*
	BA12408-1	*PLATE, BACKUP RP3 BOOT*
	CA12407-1	*BELT CLIP RP3 BOOT*
	TH-SI0802	*SCREW #4-40 X 3/16"*
	TRFMHAB62	*SPLIT RING*
12	**CC14035-3**	**BATTERY PACK, 1.6 AHR**
13	**AN16793-012**	**BATTERY LATCH KIT**
	DA14010-1	*BATTERY LATCH BUTTON*
	TH-SL0803N	*SOCKET HEAD SCREW 4-40 X 1/4*
	TH-WA0409	*FLAT WASHER #4*
	DA14011-1	*BATTERY LATCH SLIDER*
	TSPDA0022	*COMPRESSION SPRING (2)*

Note: Bold = Can be ordered. *Italic = Cannot be ordered alone; part of kit listed in* ***Bold****.*

CAMEO 2 WITH MCR OR SMART CARD



CAMEO 2 BASIC

ITEM	PART NUMBER	DESCRIPTION
1	**AN16793-003**	**PLATEN KIT**
	BA15147-1	*PLATEN (PCC DIGIT 8 = A OR B)*
	TB-LN5228	*FLANGE BEARING*
	BA13316-1	*SPUR GEAR*
	AN16793-002	**LINERLESS PLATEN KIT**
	BA13294-1	*LINERLESS PLATEN (PCC DIGIT 8 = C)*
	BA13316-1	*SPUR GEAR*
	TB-LN5228	*FLANGE BEARING (2)*
2	**AN16793-005**	**MEDIA COVER KIT**
	BA14033-1	*HINGE PIN*
	DA14009-1	*MEDIA COVER*
3	**CC14036-1**	**PRINT HEAD ASSEMBLY**
4	**AN16793-022**	**UPPER HOUSING KIT, BASIC**
	DA14008-2	*UPPER HOUSING (PCC DIGIT 12 = 0)*
	AA14024-1	*KEYPAD*
	AA15179-1	*IR LABEL (PCC DIGIT 7 = 2)*
	REF. PCC	*PRODUCT ID LABEL*
	TH-PTA023010-1	*SELF TAPPING SCREW M3 X 10MM (4) (PCC DIGIT 11 = 0 OR 1)*
5	**AN16793-001**	**KEYPAD KIT**
	AA14024-1	*KEYPAD*
	AA15179-1	*IR LABEL (PCC DIGIT 7 = 2)*
	AA16298-1	*BLUE TOOTH LABEL*
6	**AN16793-013**	**CPU W/MCR,IRDA, SMART CARD KIT**
	CQ15387-135	*CPU ASSEMBLY W/MCR, IRDA, SMART CARD*
	TH-PTA023008-1	*SELF TAPPING SCREW M3 X 8MM (4)*
	AN16793-014	**CPU W/MCR, SRRF, SMART CARD KIT**
	CQ15387-145	*"CPU ASSEMBLY W/MCR, SRRF, SMART CARD*
	TH-PTA023008-1	*SELF TAPPING SCREW M3 X 8MM (4)*
7	**AN16793-019**	**2.4GHZ BLUETOOTH ANTENNA KIT**
	CQ15731-1	*2.4 GHZ SRRF ANTENNA*
8	**AN16793-032**	**KIT, REPAIR CM2/3 BLUE TOOTH**
	CC16735-1	*BLUETOOTH MODULE*
	AA17032-1	*INSTRUCTION SHEET BLUETOOTH REGULATORY*
	AB17031-1	*LABEL, MOD, BLUETOOTH REGULATORY*
	AA17023-1	*LABEL, BLUETOOTH JAPAN*
	AN16793-026	**KIT, REPAIR CM2/3 916 MHZ SRRF**
	CC15431-1	*916MHZ SRRF ASSY.*
	AN16824-013	**KIT, REPAIR, 2.4GHZ, SRRF**
	CC15380-1V	*2.4 GHZ SRRF RADIO ASSY.*
	BA13913-1	*RADIO INSULATOR*
	TH-PE0403	*SCREW, SELF-TAP*
9	**AN16793-031**	**916 MHZ SRRF ANTENNA (PCC DIGIT 7 = 3)**
	CQ15730-1	*916MHZ SRRF ANTENNA*

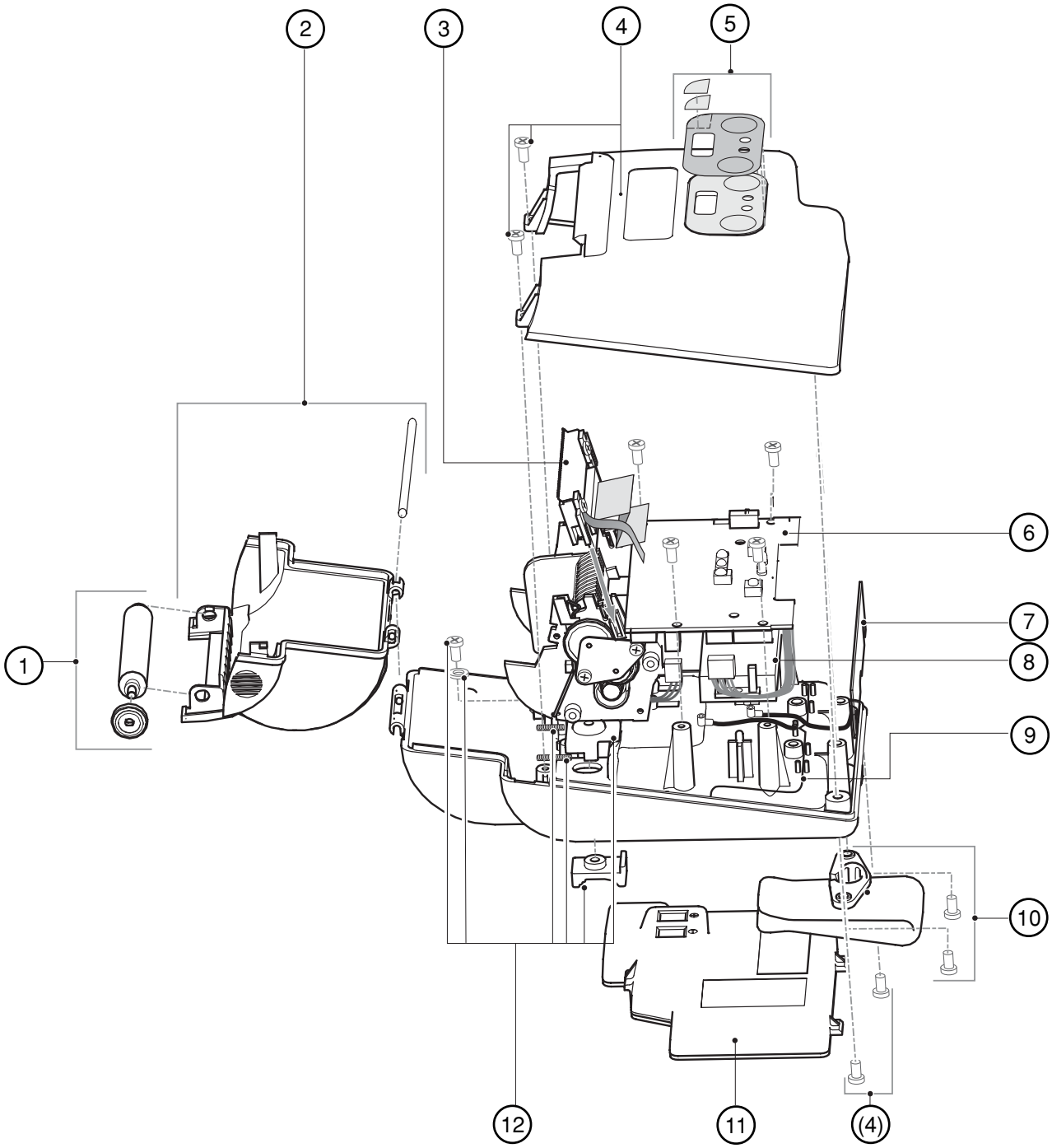
Note: Bold = Can be ordered. *Italic = Cannot be ordered alone; part of kit listed in* ***Bold****.*

CAMEO 2 BASIC

ITEM	PART NUMBER	DESCRIPTION
10	**AN16794-001**	**KIT REPAIR CM3 SHOULDER STRAP/BELT CLIP**
	BT11132-1	*SHOULDER STRAP (PCC DIGIT 11 = 1 OR 3)*
	CA15383-1	*BELT CLIP (PCC DIGIT 11 = 0 OR 1)*
	CA15580-1	*BELT CLIP RETAINER (PCC DIGIT 11 = 0 OR 1)*
	CA15582-1	*SHOULDER STRAP CLIP (PCC DIGIT 11 = 1)*
	CA12407-1	*BELT CLIP BOOT*
	BA12408-1	*BACKP-UP PLATE*
	TH-SI0802	*SCREW #4-40 X 3/16 (4)*
	TH-WB0403	*LOCK WASHER #4 (4)*
	TRFMHAB62	*SPLIT RING (2)*
	TH-PTA023010-1	*SELF TAPPING SCREW M3 X 8MM*
	CA15384-1	*RETAINER , BELT CLIP*
11	**CC14035-3**	**BATTERY PACK, 1.6 AHR**
12	**AN16793-012**	**BATTERY LATCH KIT**
	DA14010-1	*BATTERY LATCH BUTTON*
	TH-SL0803N	*SOCKET HEAD SCREW 4-40 X 1/4*
	TH-WA0409	*FLAT WASHER #4*
	DA14011-1	*BATTERY LATCH SLIDER*
	TSPDA0022	*COMPRESSION SPRING (2)*

Note: Bold = Can be ordered. *Italic = Cannot be ordered alone; part of kit listed in* ***Bold****.*

CAMEO 2 BASIC

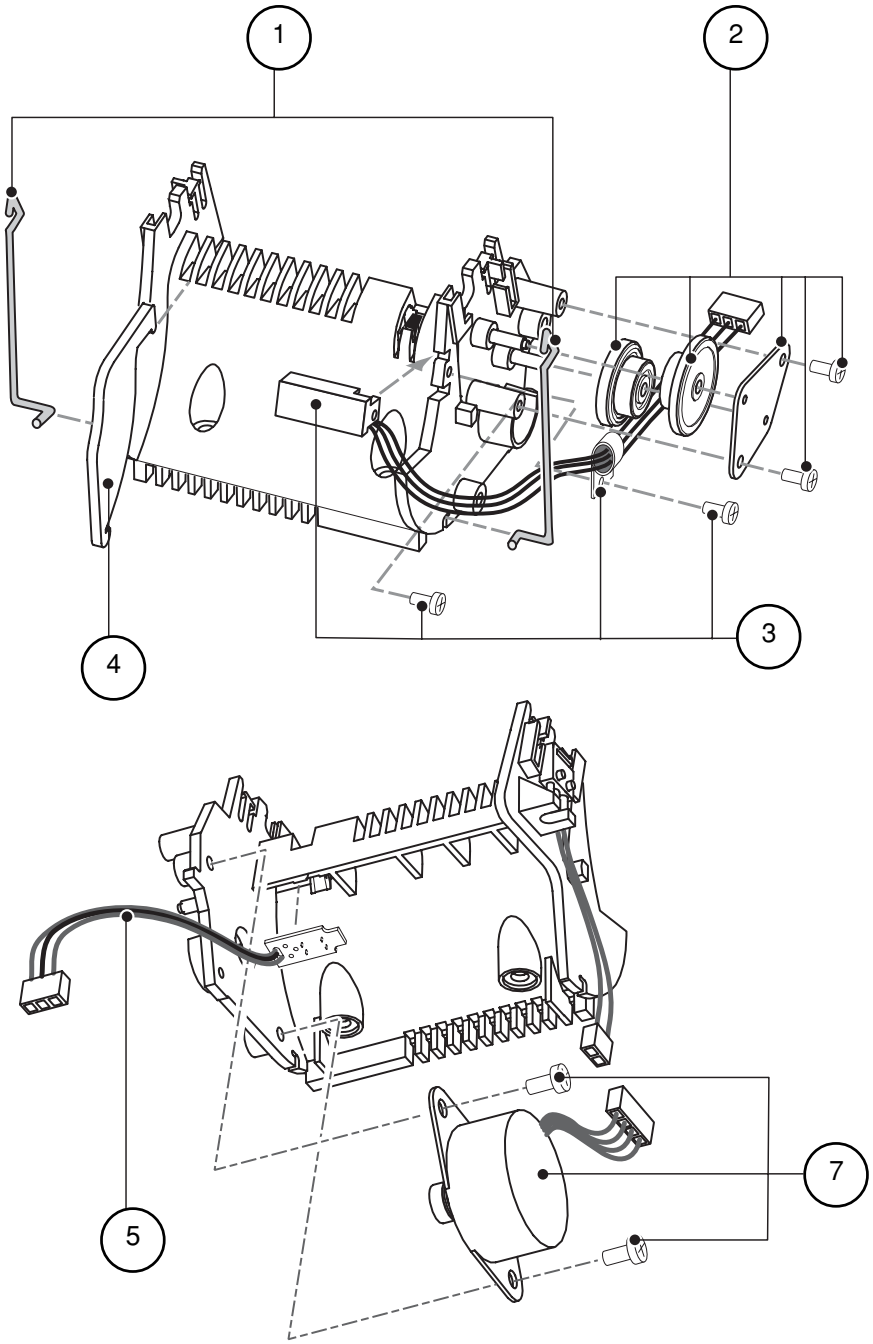


CAMEO 2 PRINTER

ITEM	PART NUMBER	DESCRIPTION
1	**AN16793-006**	**PLATEN SPRING KIT**
	BA14042-1	*PLATEN SPRING , RH*
	BA14042-2	*PLATEN SPRING, LH*
2	**AN16793-004**	**COMPOUND GEAR KIT**
	BA13363-1	*COMPOUND GEAR, 38-35T*
	BA13364-1	*COMPOUND GEAR, 44-24T*
	TH-PE0302	*SELF TAPPING SCREW #2-56 X 3/16 LG*
	BA14043-1	*GEAR COVER*
3	**AN16793-010**	**SENSOR MOUNT KIT (PCC DIGIT 7 = B)**
	CA14013-1	*SENSOR MOUNT*
	CQ13347-3	*EYE SENSOR PC ASSEMBLY*
	TH-PE0303	*SELF TAPPING SCREW #2 X 1/4*
	THRMP22CC16	*CLAMP*
4	**AN16793-009**	**EDGE GUIDE KIT**
	CA14012-1	*EDGE GUIDE*
5	**AN16793-011**	**EYE SENSOR KIT**
	CQ13347-3	*EYE SENSOR PC ASSEMBLY*
7	**AN16793-008**	**BI-POLAR MOTOR KIT**
	BT16601-1	*BI-POLAR MOTOR*
	TH-PE0403	*SELF TAPPING SCREW #4-40 X 5/16 (2)*

Note: Bold = Can be ordered. *Italic = Cannot be ordered alone; part of kit listed in* ***Bold****.*

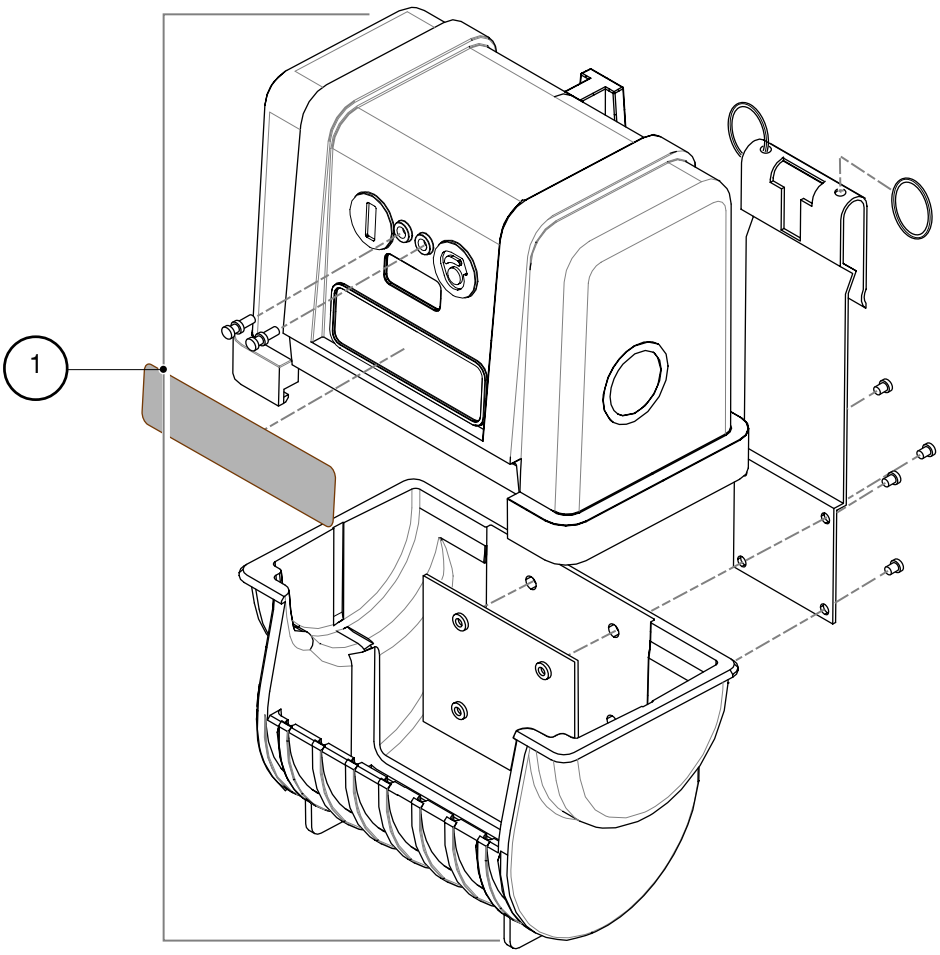
CAMEO 2 PRINTER



CAMEO 2 BOOTS

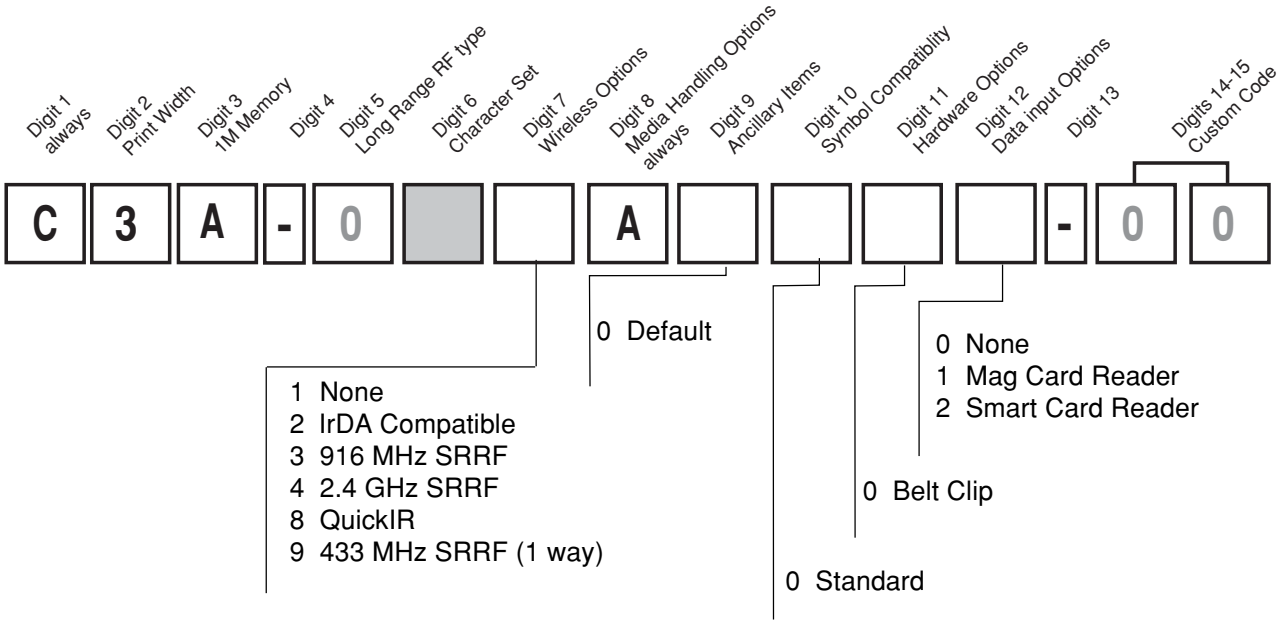
ITEM	PART NUMBER	DESCRIPTION
1	**AN16793-015**	**MOD BOOT W/MCR, DIN AND CHARGER CUTOUTS KIT**
	CB15229-1	*MOD. BOOT W/ MCR, DIN AND CHARGER CUTOUTS*
	DA15071-1	*BOTTOM BOOT*
	AN16793-016	**MOD BOOT W/MCR, DIN AND IR CUTOUTS KIT**
	CB15229-2	*MOD. BOOT W/ MCR, DIN AND IR CUTOUTS*
	DA15071-1	*BOTTOM BOOT*
	AN16793-017	**MOD BOOT W/IR CUTOUTS KIT**
	CB15229-3	*MOD. BOOT W/ IR CUTOUTS*
	DA15071-1	*BOTTOM BOOT*
	AN16793-018	**MOD BOOT W/DIN AND CHARGER CUTOUTS KIT**
	CB15229-4	*MOD. BOOT W/ DIN AND CHARGER CUTOUTS*
	DA15071-1	*BOTTOM BOOT*

Note: Bold = Can be ordered. *Italic = Cannot be ordered alone; part of kit listed in* ***Bold****.*

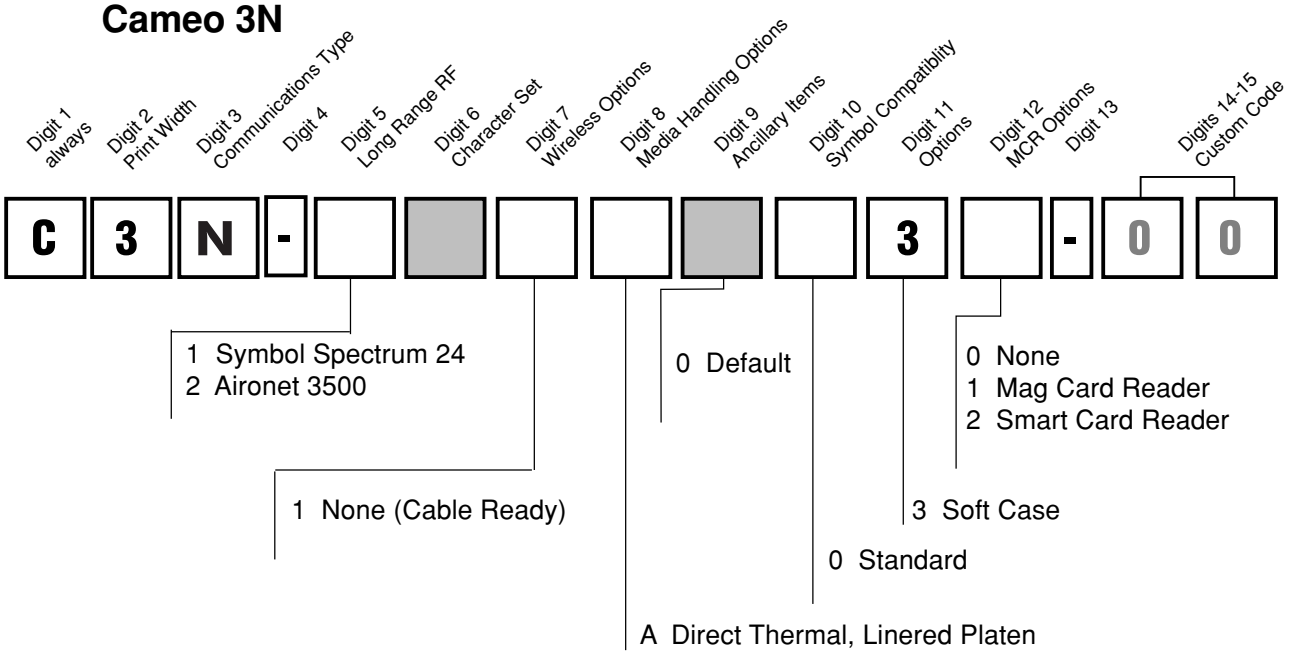

1

CAMEO 3 & 3N PRODUCT CONFIGURATOR CODE (PCC)

Cameo 3 & 3SC



Cameo 3N



Note: The Product Configurator Code (PCC) is the link between the Manufacturing Order and specific options and specifications for each individual unit. Page numbers listed after specific options contain information regarding that option's installation . Options that are grayed out are handled either by software installation or by the PC assembly called out in the BOM for that particular printer's PCC .

CAMEO 3 BASIC

ITEM	PART NUMBER	DESCRIPTION
1	**CC15294-3**	**BATTERY PACK ASSEMBLY**
2	**AN16793-026**	**KIT REPAIR CM2/3 916 SRRF**
	CC15431-1	*916 MHZ SRRF ASSY.*
	AN16824-013	**KIT REPAIR EN3 RADIO 2.4 GHZ**
	CC15380-1V	*2.4 GHZ SRRF RADIO ASSY.*
	BA13913-1	*RADIO INSULATOR*
	TH-PE0403	*SCREW, SELF-TAP*
	AN16793-032	**KIT, REPAIR CM2/3 BLUE TOOTH**
	CC16735-1	*BLUETOOTH MODULE*
	AA17032-1	*INSTRUCTION SHEET BLUETOOTH REGULATORY*
	AB17031-1	*LABEL, MOD, BLUETOOTH REGULATORY*
	AA17023-1	*LABEL, BLUETOOTH JAPAN*
3	**AN16794-004**	**CPU W/BASIC KIT**
	TH-PTA023010	*SELF TAPPING SCREW M3 X 10MM (PCC DIGIT 11 = 0 OR 1) (4)*
	CQ15183-1	*CPU BASIC PC ASSY*
	AN16794-006	**CPU W/IRDA KIT**
	TH-PTA023010	*SELF TAPPING SCREW M3 X 10MM (PCC DIGIT 11 = 0 OR 1) (4)*
	CQ15183-2	*CPU IRDA (INFRA-RED DATA ASSOCIATION) PC ASSY*
	AN16794-008	**CPU W/SRRF KIT**
	TH-PTA023010	*SELF TAPPING SCREW M3 X 10MM (PCC DIGIT 11 = 0 OR 1) (4)*
	CQ15183-3	*CPU SRRF PC ASSY*
4	**AN16794-012**	**2.4GHZ ANTENNA KIT**
	CQ15352-1	*ANTENNA ASSEMBLY 2.4 GHZ (PCC DIGIT 7 = 4)*
	AN16794-032	**KIT REPAIR CM3SC 2.4 GHZ ANTENNA**
	CQ16142-1	*2.4GHZ SRRF ANTENNA ASSY*
	AN16794-013	**916MHZ ANTENNA KIT**
	CQ15353-1	*ANTENNA ASSEMBLY 916 MHZ (PCC DIGIT 7 = 3)*
	AN16794-033	**KIT REPAIR CM3SC 916 MHZ ANTENNA**
	CQ16141-1	*916MHZ SRRF ANTENNA ASSY*
5	**AN16793-001**	**KEYPAD KIT**
	AA15179-1	*IR LABEL (PCC DIGIT 7 = 2)*
	AA16298-1	*BLUE TOOTH LABEL*
	AA14024-1	*KEYPAD*
6	**AN16794-023**	**UPPER CASE KIT, BASIC**
	DA15214-1	*UPPER CASE (PCC DIGIT 12 = 0)*
	AA14024-1	*"KEYPAD, QTY OF 2"*
	AA15179-1	*IR LABEL (PCC DIGIT 7 = 2)*
	TH-PTA023010-1	*SELF TAPPING SCREW M3 X 10MM (PCC DIGIT 11 = 0 OR 1)(4)*
	AA16298-1	*BLUE TOOTH LABEL*
	AA15293-1	*PRODUCT ID LABEL*
7	**AN16794-010**	**BATTERY LATCH KIT**
	CA15217-1	*BATTERY LATCH*
	CA15259-1	*BATTERY LATCH BUTTON*
	TSPBS0017	*SPRING*

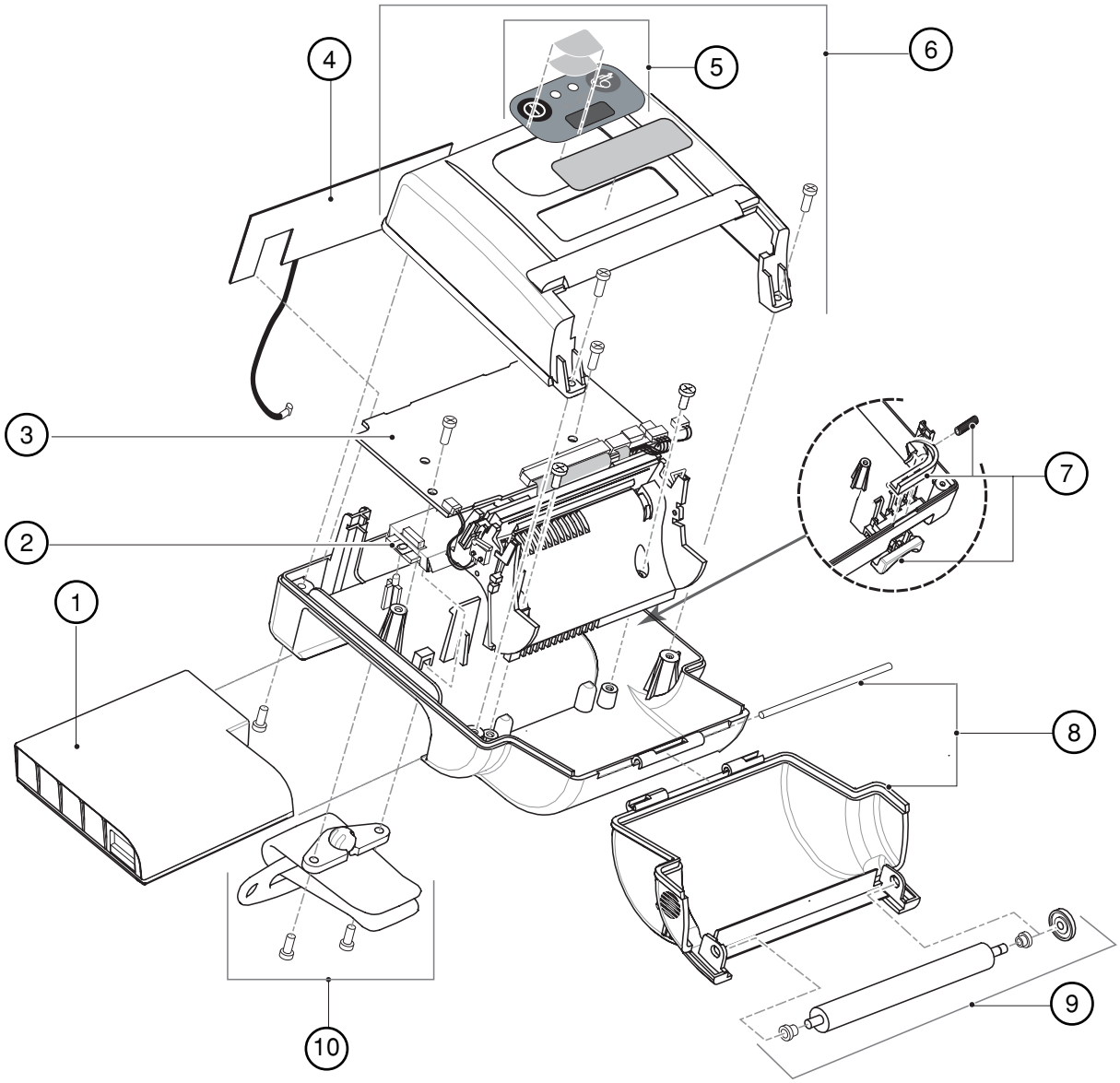
Note: Bold = Can be ordered. *Italic = Cannot be ordered alone; part of kit listed in* ***Bold****.*

CAMEO 3 BASIC

ITEM	PART NUMBER	DESCRIPTION
8	**AN16794-003**	**MEDIA COVER KIT**
	BA15302-1	*HINGE PIN*
	DA15212-1	*MEDIA COVER*
9	**AN16794-002**	**PLATEN KIT**
	TB-NB0303	*FLANGE BEARING (2)*
	BA15291-1	*PLATEN*
	BA13316-1	*SPUR GEAR*
10	**AN16794-001**	**SHOULDER STRAP/BELT CLIP KIT**
	BT11132-1	*SHOULDER STRAP (PCC DIGIT 11 = 1 OR 3)*
	CA15383-1	*BELT CLIP (PCC DIGIT 11 = 0 OR 1)*
	CA15580-1	*BELT CLIP RETAINER (PCC DIGIT 11 = 0 OR 1)*
	CA15582-1	*SHOULDER STRAP CLIP (PCC DIGIT 11 = 1)*
	CA12407-1	*BELT CLIP BOOT*
	BA12408-1	*BACKP-UP PLATE*
	TH-SI0802	*SCREW #4-40 X 3/16 (4)*
	TH-WB0403	*LOCK WASHER #4 (4)*
	TRFMHAB62	*SPLIT RING (2)*
	TH-PTA023010-1	*SELF TAPPING SCREW M3 X 8MM*
	CA15384-1	*RETAINER , BELT CLIP*

Note: Bold = Can be ordered. *Italic = Cannot be ordered alone; part of kit listed in* ***Bold****.*

CAMEO 3 BASIC



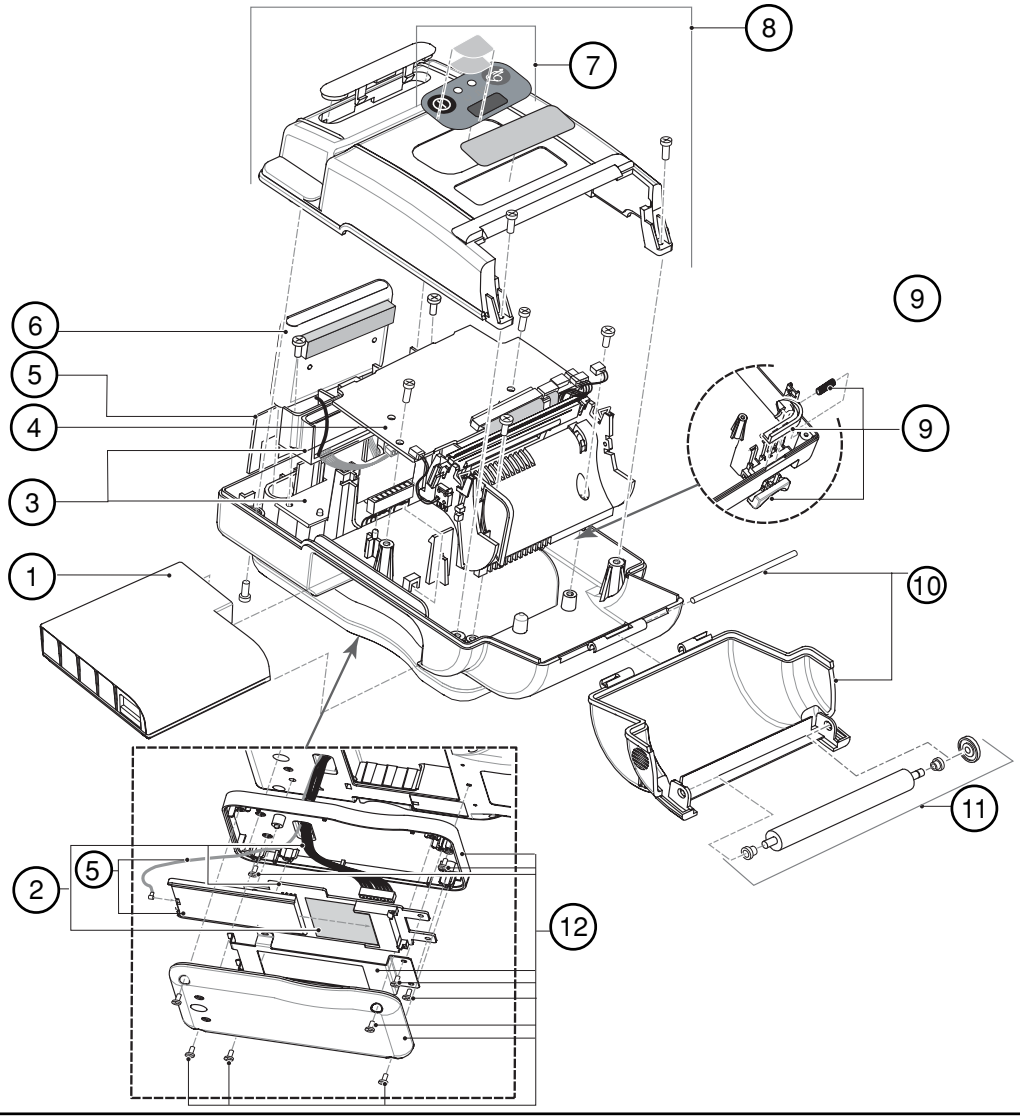
CAMEO 3 WITH NETWORK RADIO

ITEM	PART NUMBER	DESCRIPTION
1	**CC15294-3**	**BATTERY PACK ASSEMBLY**
2	**AN16794-027**	**NETWORK RADIO/ADAPTER KIT, CAMEO 3N ONLY**
	BL15748-1	*NETWORK RADIO CABLE*
	CQ15771-2	*RADIO ADAPTER*
	BA15650-1	*INSULATOR*
	TH-PTA023008-1	*SELF TAPPING SCREW M3 X 8MM (2)*
3	**AN16793-033**	**MAGNETIC CARD READER KIT (PCC DIGIT 12 = 1 OR 3)**
	BB17007-1	*MAGNETIC CARD READER, MOD.*
	BA16798-1	*MAG CARD BRACKET,*
	AA16799-1	*FOAM PAD*
	TH-PTA023010-1	*SCREW, SELF TAP M3 X 10MM (2 P/U)*
4	**AN16794-005**	**CPU W/UART,MAG KIT**
	TH-PTA023010	*SELF TAPPING SCREW M3 X 10MM (PCC DIGIT 11 = 0 OR 1) (4)*
	CQ15183-6	*CPU UART (MAGNETIC CARD READER) PC ASSY*
	AN16794-007	**CPU W/SC, NET, IRDA KIT**
	TH-PTA023010	*SELF TAPPING SCREW M3 X 10MM (PCC DIGIT 11 = 0 OR 1) (4)*
	CQ15628-2	*CPU SC/NET IRDA PC ASSY*
	AN16794-009	**CPU W/SC, NET KIT**
	TH-PTA023010	*SELF TAPPING SCREW M3 X 10MM (PCC DIGIT 11 = 0 OR 1) (4)*
	CQ15628-1	*CPU SC/NET PC ASSY*
5	**AN16794-029**	**PCMCIA 2.4GHZ RADIO/ANTENNA KIT**
	AT15477-2	*PCMCIA RADIO 2.4 GHZ (USED ON -2)*
	CQ15469-5	*2.4 GHZ ANTENNA*
	AN16794-028	**PCMCIA 2.4GHZ RADIO/ANTENNA KIT**
	AT15477-1	*PCMCIA RADIO 2.4 GHZ (USED ON -1)*
	CQ15469-5	*2.4 GHZ ANTENNA*
6	**BB15426-1**	**MOD. SMART CARD READER CAMEO 2/3, (PCC DIGIT 12 = 2 OR 3)**
7	**AN16793-001**	**KEYPAD KIT**
	AA15179-1	*IR LABEL (PCC DIGIT 7 = 2)*
	AA16298-1	*BLUE TOOTH LABEL*
	AA14024-1	*KEYPAD*
8	**AN16794-024**	**UPPER CASE KIT, W/MAG, SMART CARD**
	DA15459-1	*UPPER CASE (PCC DIGIT 12 = 1 OR 3)*
	DA15459-2	*UPPER CASE W/O MCR (PCC DIGIT 12 = 2)*
	AA14024-1	*KEYPAD*
	AA15293-1	*PRODUCT ID LABEL*
	AA15179-1	*IR LABEL (PCC DIGIT 7 = 2)*
	AA16298-1	*BLUE TOOTH LABEL*
	TH-PTA023010-1	*SELF TAPPING SCREW M3 X 10MM (PCC DIGIT 11 = 0 OR 1) (4)*
	BA15632-1	*SMART CARD COVER (PCC DIGIT 12 = 0 OR 1)*
9	**AN16794-010**	**BATTERY LATCH KIT**
	CA15217-1	*BATTERY LATCH*
	CA15259-1	*BATTERY LATCH BUTTON*
	TSPBS0017	*SPRING*

Note: Bold = Can be ordered. *Italic = Cannot be ordered alone; part of kit listed in* ***Bold****.*

ITEM	PART NUMBER	DESCRIPTION
10	**AN16794-003**	**MEDIA COVER KIT**
	BA15302-1	*HINGE PIN*
	DA15212-1	*MEDIA COVER*
11	**AN16794-002**	**PLATEN KIT**
	TB-NB0303	*FLANGE BEARING (2)*
	BA15291-1	*PLATEN*
	BA13316-1	*SPUR GEAR*
12	**AN16794-026**	**NETWORK RADIO BASE/COVER KIT, CAMEO 3N ONLY**
	DA15621-1	*NETWORK RADIO BASE*
	DA15622-1	*NETWORK RADIO COVER*
	DA15769-1	*RADIO RETAINER*
	TH-PTA023008-1	*SELF TAPPING SCREW M3 X 8MM (8)*

Note: Bold = Can be ordered. *Italic = Cannot be ordered alone; part of kit listed in* ***Bold****.*



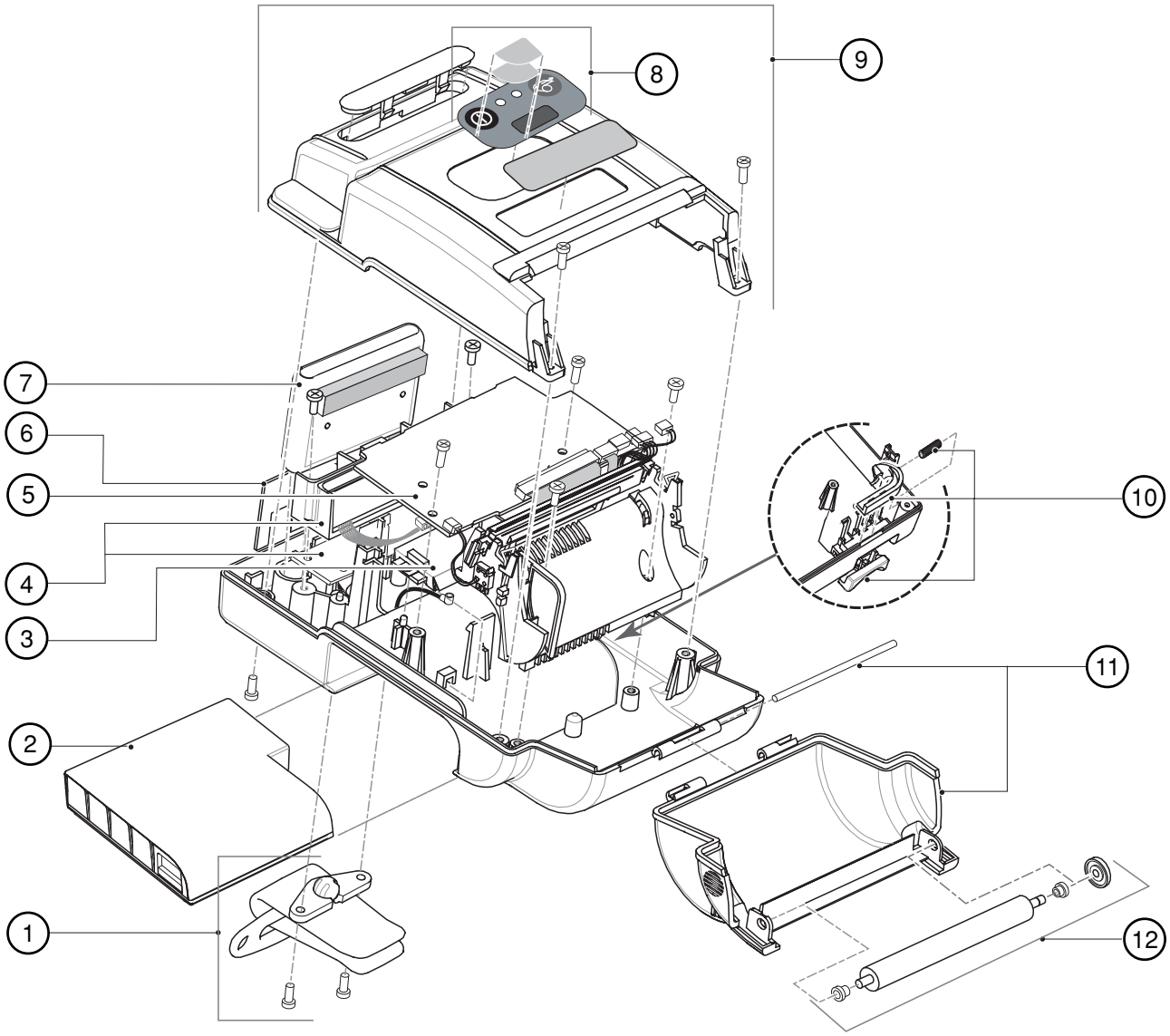
CAMEO 3 WITH MCR & SMART CARD READER

ITEM	PART NUMBER	DESCRIPTION
1	**AN16794-001**	**SHOULDER STRAP/BELT CLIP KIT**
	BT11132-1	*SHOULDER STRAP (PCC DIGIT 11 = 1 OR 3)*
	CA15383-1	*BELT CLIP (PCC DIGIT 11 = 0 OR 1)*
	CA15580-1	*BELT CLIP RETAINER (PCC DIGIT 11 = 0 OR 1)*
	CA15582-1	*SHOULDER STRAP CLIP (PCC DIGIT 11 = 1)*
	CA12407-1	*BELT CLIP BOOT*
	BA12408-1	*BACK-UP PLATE*
	TH-SI0802	*SCREW #4-40 X 3/16 (4)*
	TH-WB0403	*LOCK WASHER #4 (4)*
	TRFMHAB62	*SPLIT RING (2)*
	TH-PTA023010-1	*SELF TAPPING SCREW M3 X 8MM*
	CA15384-1	*RETAINER , BELT CLIP*
2	**CC15294-3**	**BATTERY PACK ASSEMBLY**
3	**AN16793-026**	**KIT, REPAIR CM2/3 916 SRRF**
	CC15431-1	*916MHZ SRRF ASSY.*
	AN16824-013	**KIT, REPAIR, RADIO, 2.4 GHZ**
	CC15380-1V	*2.4 GHZ SRRF RADIO ASSY.*
	BA13913-1	*RADIO INSULATOR*
	TH-PE0403	*SCREW, SELF-TAP*
	AN16793-032	**KIT, REPAIR CM2/3 BLUE TOOTH**
	CC16735-1	*BLUETOOTH MODULE*
	AA17032-1	*INSTRUCTION SHEET BLUETOOTH REGULATORY*
	AB17031-1	*LABEL, MOD, BLUETOOTH REGULATORY*
	AA17023-1	*LABEL, BLUETOOTH JAPAN*
4	**AN16793-033**	**MAGNETIC CARD READER KIT (PCC DIGIT 12 = 1 OR 3)**
	BB17007-1	*MAGNETIC CARD READER, MOD.*
	BA16798-1	*MAG CARD BRACKET,*
	AA16799-1	*FOAM PAD*
	TH-PTA023010-1	*SCREW, SELF TAP M3 X 10MM (2 P/U)*
5	**AN16794-005**	**CPU W/UART,MAG KIT**
	TH-PTA023010	*SELF TAPPING SCREW M3 X 10MM (PCC DIGIT 11 = 0 OR 1) (4)*
	CQ15183-6	*CPU UART (MAGNETIC CARD READER) PC ASSY*
	AN16794-007	**CPU W/SC, NET, IRDA KIT**
	TH-PTA023010	*SELF TAPPING SCREW M3 X 10MM (PCC DIGIT 11 = 0 OR 1) (4)*
	CQ15628-2	*CPU SC/NET IRDA PC ASSY*
	AN16794-009	**CPU W/SC, NET KIT**
	TH-PTA023010	*SELF TAPPING SCREW M3 X 10MM (PCC DIGIT 11 = 0 OR 1) (4)*
	CQ15628-1	*CPU SC/NET PC ASSY*
6	**AN16794-012**	**2.4 GHZ ANTENNA KIT**
	CQ15352-1	*2.4 GHZ ANTENNA*
	AN16794-013	**916 MHZ ANTENNA**
	CQ15353-1	*ANTENNA ASSEMBLY, 916 MHZ*

ITEM	PART NUMBER	DESCRIPTION
7	**BB15426-1**	**MOD. SMART CARD READER (PCC DIGIT 12 = 2 OR 3)**
8	**AN16793-001**	**KEYPAD KIT**
	AA15179-1	*IR LABEL (PCC DIGIT 7 = 2)*
	AA16298-1	*BLUE TOOTH LABEL (PCC DIGIT 7 = B)*
	AA14024-1	*KEYPAD*
9	**AN16794-024**	**UPPER CASE KIT, W/MAG, SMART CARD**
	DA15459-1	*UPPER CASE (PCC DIGIT 12 = 1 OR 3)*
	DA15459-2	*UPPER CASE W/O MCR (PCC DIGIT 12 = 2)*
	AA14024-1	*KEYPAD*
	AA15293-1	*PRODUCT ID LABEL*
	AA15179-1	*IR LABEL (PCC DIGIT 7 = 2)*
	AA16298-1	*BLUE TOOTH LABEL*
	TH-PTA023010-1	*SELF TAPPING SCREW M3 X 10MM (PCC DIGIT 11 = 0 OR 1) (4)*
	BA15632-1	*SMART CARD COVER (PCC DIGIT 12 = 0 OR 1)*
10	**AN16794-010**	**BATTERY LATCH KIT**
	CA15217-1	*BATTERY LATCH*
	CA15259-1	*BATTERY LATCH BUTTON*
	TSPBS0017	*SPRING*
11	**AN16794-003**	**MEDIA COVER KIT**
	BA15302-1	*HINGE PIN*
	DA15212-1	*MEDIA COVER*
12	**AN16794-002**	**PLATEN KIT**
	TB-NB0303	*FLANGE BEARING (2)*
	BA15291-1	*PLATEN*
	BA13316-1	*SPUR GEAR*

Note: Bold = Can be ordered. *Italic = Cannot be ordered alone; part of kit listed in* ***Bold****.*

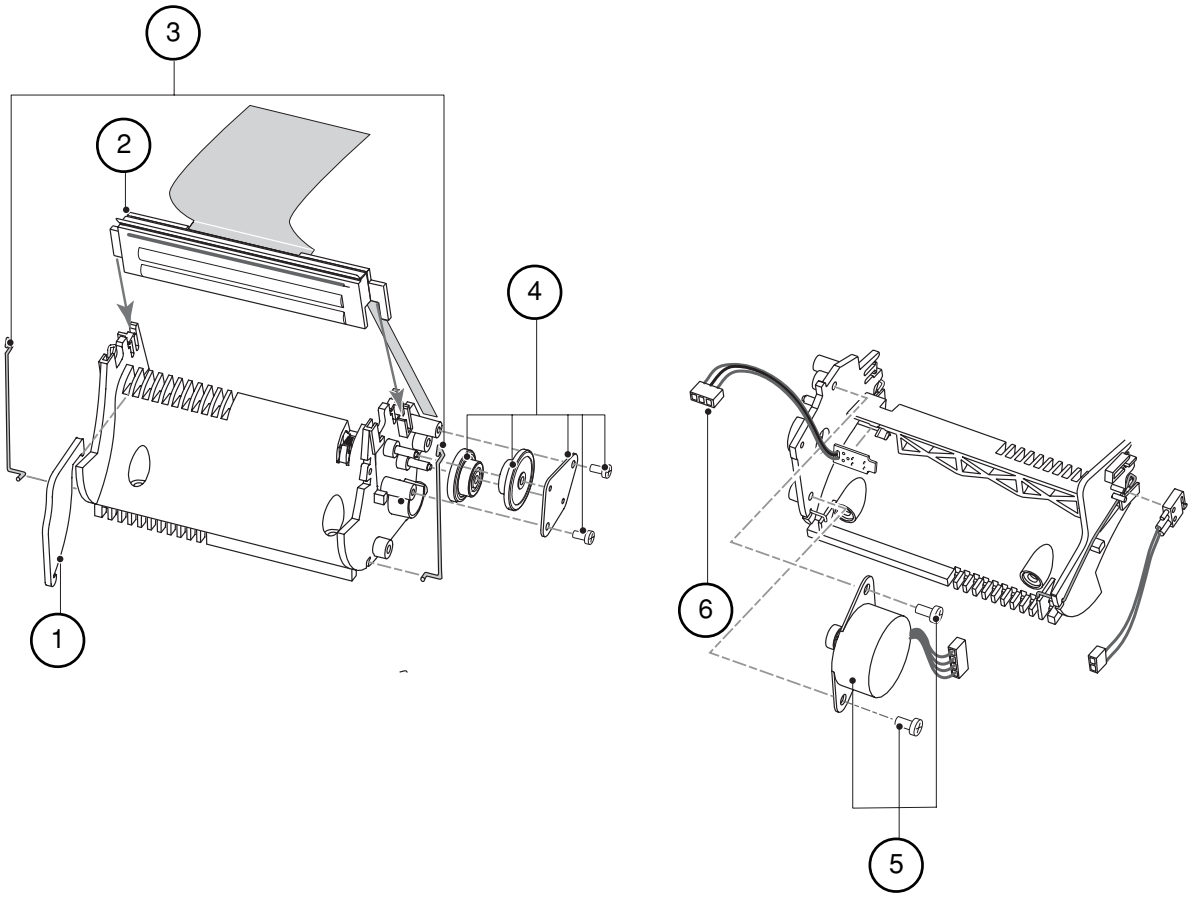
CAMEO 3 WITH MCR & SMART CARD READER



CAMEO 3 PRINTER

ITEM	PART NUMBER	DESCRIPTION
1	**AN16793-009**	**EDGE GUIDE KIT**
	CA14012-1	*EDGE GUIDE*
2	**CC15301-1**	**PRINT HEAD ASSEMBLY**
3	**AN16793-006**	**PLATEN SPRING KIT**
	BA14042-1	*PLATEN SPRING , RH*
	BA14042-2	*PLATEN SPRING, LH*
4	**AN16793-004**	**COMPOUND GEAR KIT**
	BA13363-1	*COMPOUND GEAR, 38-35T*
	BA13364-1	*COMPOUND GEAR, 44-24T*
	BA14043-1	*GEAR COVER*
	TH-SJ0302	*PAN HEAD SCREW #2-56 X 3/16 (2)*
5	**AN16793-008**	**BI-POLAR MOTOR KIT**
	BT16601-1	*BI-POLAR MOTOR*
	TH-PE0404	*SELF TAPPING SCREW #4-40 X 5/16 (2)*
6	**AN16793-011**	**EYE SENSOR KIT**
	CQ13347-3	*EYE SENSOR PC ASSEMBLY*

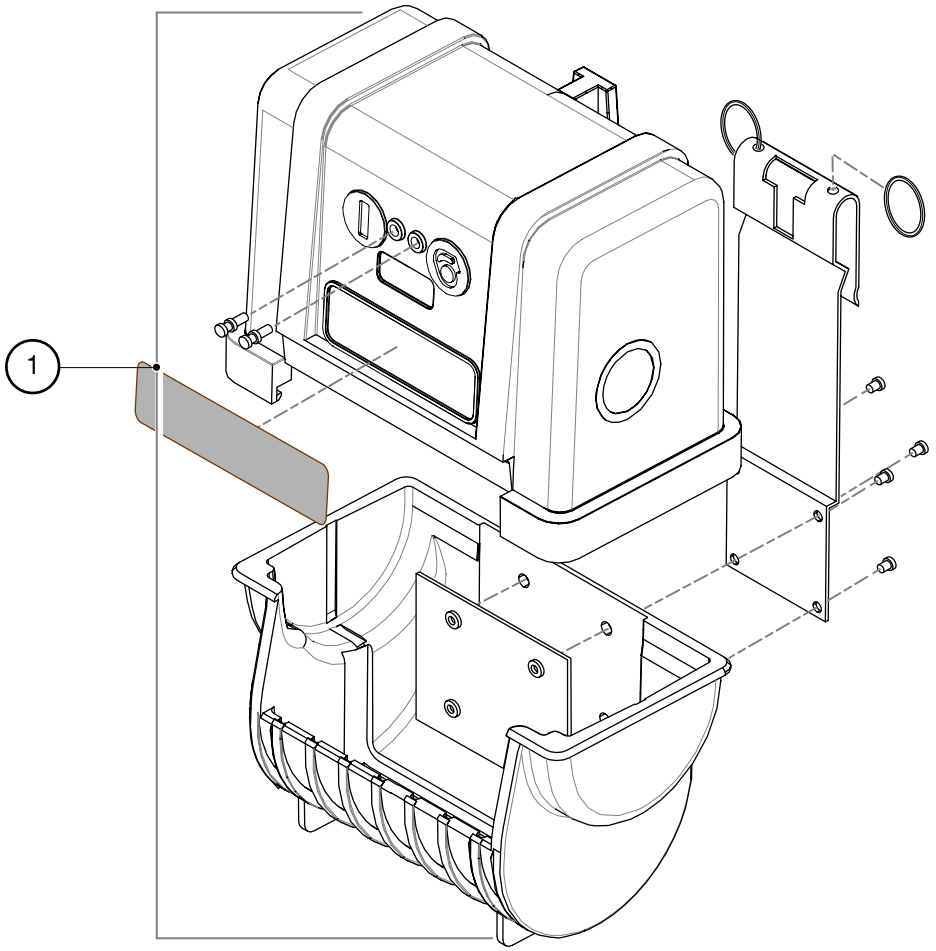
Note: Bold = Can be ordered. *Italic = Cannot be ordered alone; part of kit listed in* ***Bold****.*



CAMEO 3 BOOTS

ITEM	PART NUMBER	DESCRIPTION
1	**AN16794-016**	**MOD BOOT/CHARGER CUTOUT KIT**
	DB15798-2	*MOD. BOOT W/ CHARGER CUTOUT*
	DA15268-1	*BOTTOM BOOT*
	AN16794-017	**MOD BOOT W/DIN AND CHAGER CUTOUT KIT**
	DB15798-5	*MOD. BOOT W/ DIN AND CHARGER CUTOUTS*
	DA15268-1	*BOTTOM BOOT*
	AN16794-018	**MOD BOOT W/DIN CUTOUT KIT**
	DB15798-3	*MOD. BOOT W/ DIN CUTOUT*
	DA15268-1	*BOTTOM BOOT*
	AN16794-019	**MOD BOOT W/DIN, CHARGER AND IR CUTOUT KIT**
	DB15798-7	*MOD. BOOT W/ DIN,CHARGER AND IR CUTOUTS*
	DA15268-1	*BOTTOM BOOT*
	AN16794-020	**MOD BOOT W/IR AND CHARGER CUTOUT KIT**
	DB15798-6	*MOD. BOOT W/ IR AND CHARGER CUTOUTS*
	DA15268-1	*BOTTOM BOOT*
	AN16794-021:	**MOD BOOT W/IR CUTOUT KIT**
	DB15798-4	*MOD. BOOT W/ IR CUTOUTS*
	DA15268-1	*BOTTOM BOOT*

Note: Bold = Can be ordered. *Italic = Cannot be ordered alone; part of kit listed in* ***Bold****.*



PATENT INFORMATION

This product and/or its use may be covered by one or more of the following US patents and corresponding international patents worldwide

D275,286	5,029,183	5,364,133	5,543,610	6,034,708
D347,021	5,047,617	5,367,151	5,545,889	6,036,383
D389,178	5,103,461	5,372,439	5,552,592	6,057,870
D430,199	5,113,445	5,373,148	5,570,123	6,068,415
D433,702	5,140,144	5,378,882	5,578,810	6,070,805
3,964,673	5,132,709	5,396,053	5,589,680	6,095,704
4,019,676	5,142,550	5,396,055	5,612,531	6,109,801
4,044,946	5,149,950	5,399,846	5,642,666	6,123,471
4,360,798	5,157,687	5,408,081	5,657,066	6,147,767
4,369,361	5,168,148	5,410,139	5,768,991	6,151,037
4,387,297	5,168,149	5,410,140	5,790,162	6,201,255 B1
4,460,120	5,180,904	5,412,198	5,791,796	6,231,253 B1
4,496,831	5,229,591	5,415,482	5,806,993	6,261,009
4,593,186	5,230,088	5,418,812	5,813,343	6,261,013
4,607,156	5,235,167	5,420,411	5,816,718	6,267,521
4,673,805	5,243,655	5,436,440	5,820,279	6,270,072 B1
4,736,095	5,247,162	5,444,231	5,848,848	6,285,845 B1
4,758,717	5,250,791	5,449,891	5,860,753	6,292,595
4,816,660	5,250,792	5,449,893	5,872,585	6,296,032
4,845,350	5,262,627	5,468,949	5,874,980	6,364,550
4,896,026	5,267,800	5,479,000	5,909,233	6,379,058 B1
4,897,532	5,280,163	5,479,002	5,976,720	6,409,401 B1
4,923,281	5,280,164	5,479,441	5,978,004	6,411,397 B1
4,933,538	5,280,498	5,486,057	5,995,128	6,428,227 B2
4,992,717	5,304,786	5,503,483	5,997,193	6,530,705
5,015,833	5,304,788	5,504,322	6,004,053	6,540,122
5,017,765	5,321,246	5,528,621	6,010,257	6,607,316
5,021,641	5,335,170	5,532,469	6,020,906	6,609,844

Zebra Technologies International, LLC
333 Corporate Woods Parkway
Vernon Hills, Illinois 60061.3109 USA
Phone: +1.847.634.6700
Toll-Free: +1.800.423.0422
Fax: +1.847.913.8766

Visit our Web site at
www.zebra.com